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6234

ROSS BROS. Co.

WORCESTER, MASS.



ROSS' WORLD'S
RECORD PEAS



SURE CROP
BLACK
WAX BEANS



LONG
ISLAND
RUTABAGA



FRENCH
HORTICULTURAL
BEAN



BLUE
HUBBARD
SQUASH



JOHN
BAER
TOMATO

EVERYTHING
FOR
THE FARM
AND
GARDEN

ONE PACKAGE OF EACH OF THE
SIX VARIETIES OF VEGETABLES SHOWN ABOVE
POSTPAID FOR 50 CENTS

1919



WORCESTER, MASSACHUSETTS, U. S. A.

City of Prosperity

That our customers may know more about Worcester, we give below some of the

FACTS ABOUT WORCESTER:

First settled in 1674; incorporated as a town in 1782; as a city in 1848. Estimated inhabitants 1919 190,000. Second city in Massachusetts, third in New England.

Worcester is one of the greatest machine tool centres in the United States and is the centre of rolling mill construction. It is known as the "City of Diversified Industries." Among the Worcester factories which are known the world over are those which produce Steel and Wire, Machine Tools, Wire Goods, Grinding Wheels, Carpets and Rugs, Leather and Leather Goods, Corsets, Shoes, Envelopes, Woolens, Skates, Wall Paper, Vacuum Cleaners, Valentines, Looms, Steam and Electric Cars, Automobile Parts, Firearms, Boilers, Elevators, Clippers, Sprinkler Systems, Wrenches, Crankshafts, Textile Machinery, Wool-spinning Machinery and Chains. Some of these being the largest and best known in the U. S.

Worcester has approximately 3200 mercantile establishments, employing about 25,000 people.

Worcester is widely recognized as an educational centre. It is the home of Clark University, Worcester Polytechnic Institute, Holy Cross College, Clark College, Assumptionist College and Worcester Academy, besides several private schools.

Worcester has 74 public school buildings and four High School buildings valued at \$4,251,777, and nearly 30,000 public school pupils.

Worcester has more than 30 libraries containing about 600,000 volumes.

Worcester has one of the finest museums in the United States with an endowment of \$4,000,000.

Worcester is the site of the American Antiquarian Society's \$200,000 home, having 140,000 volumes in its library.

Worcester was the first city in the United States to purchase land for park purposes and has a park acreage of 1,091 acres.

Worcester City Hall cost \$600,000.

Worcester Union Station cost \$1,000,000.

Worcester has more than 100 churches.

Worcester has more than 30 hotels, including the Bancroft, which cost over \$1,000,000.

Worcester has a Y. M. C. A. costing \$500,000.

Worcester has a Masonic Temple costing \$100,000.

Worcester has an Odd Fellows Home costing \$140,000.

Worcester has a Woman's Club Building costing \$100,000.

CITY'S WAR CONTRIBUTIONS TO DATE:

United War Work Fund	\$ 1,071,543	Jewish Sufferers Fund	50,000
First Liberty Loan	11,548,600	American Fund for French Wounded	34,800
Second Liberty Loan	22,754,300	Worcester Branch, Surgical Dressings Committee.	21,535
Third Liberty Loan	9,200,000	Y. W. C. A. Hostess Houses Fund	16,950
Fourth Liberty Loan	19,239,150	Prince of Wales Fund, amount sent to England..	10,000
Red Cross War Fund, 1917	750,000	Soldiers' War Relief Fund	6,736
Red Cross War Fund, 1918	943,000	Clark College Ambulance Unit	7,000
Y. M. C. A. War Fund, 1917	390,000	Soldiers' Library Fund, R. K. Shaw	8,300
K. of C. War Fund, 1917	74,000	Belgian Relief Fund	6,500
Salvation Army War Fund, 1917	500	K. of C. Members' Contribution to K. of C. War	
War Camp Community Fund	16,000	Fund	5,000
Halifax Relief Fund	15,000	Serbian Relief Fund	3,500
Y. M. C. A. Building Fund	376,217	French and Belgian Children's Fund	2,857
Boys' Club Building Fund	163,000	Children of America Fund, contributed by Wor-	
Y. W. C. A. Building Fund	71,000	cester public school children	2,046
Girls' Club	25,000	Belgian Children's Fund (tin box fund)	1,203
Boy Scouts	20,000	Evening Post Tobacco Fund	1,000
Smileage Campaign	12,902		
Worcester's War Chest	26,543		
Post 10, G. A. R., Mortgage Fund	10,000	Grand Total	\$66,965,224
Red Cross Auxiliary Metal Trades Ass'n Ambu-		Minus Liberty Bond sales	62,752,550
lance Fund	4,500		
Armenian and Syrian Relief	76,736	Money gifts	\$ 4,222,574

The above shows \$66,965,244 invested in Bonds and \$4,222,574 in gifts.



ROSS BROS. CO.

New England's Greatest Agricultural Department Store. Established in 1845 by John D. Lovell; in 1880 by Wm. H. Earle; in 1888 by Ross Bros.; in 1906 incorporated under the name of Ross Bros. Co.

GRASS-GARDEN
and FLOWER
SEEDS

U. S. Food License
No. G 12956

Members of the
American Seed Trade
Association

U. S. Fertilizer License
No. J 2163

This catalogue cancels all previous lists and prices.

We style ourselves as New England's Greatest Agricultural Department Store because we believe we have more floor space devoted to the sale of Seeds and Agricultural Supplies than any other house in New England. Our present location consists of one entire block known as the Granite Block, 90-92 Front Street, 5 floors and basement; one block known as the Whitecomb Block, 3 floors and basement; Bigelow Court Building, 4 floors and basement. Each contains about 4,000 sq. ft. Also storehouse on railroad tracks containing about 11,000 sq. ft. We also have other outside storage which we use during our busy season.

Our seeds are planted from the Atlantic to the Pacific and from Canada to Cuba. Our constant aim has been to carry nothing but the best seed obtainable and because our sales this past year were more than 10 times what they were our first year, it leads us to believe that our seeds have been giving perfect satisfaction.

Now that the war is over, people are asking whether prices are going to be lower this coming season or not. In answer to this question we can only say "No."

There are several reasons why the price of seeds will not be lower during the coming season.

For many years the United States has paid very little attention to the growing of seeds, especially those varieties which it would be necessary to produce in competition with European countries. It is a well known fact among seedsmen that some of our best varieties of seeds have been produced across the ocean at a price which could not be met by the growers in the United States owing to the greater cost of labor here. This fact has, of course, led us to depend on European growers and import thousands of tons of vegetable seeds annually.

Since the growing season of 1914, the European countries which were producing the bulk of our imports of seeds have had other things to do, which were actually necessary for the war. This, of course, has compelled us to rely more fully on our own productions, and we are pleased to say that the growers in the United States have produced enough for our own needs. The production here has been done at a very much higher cost, as the big item in growing seed is labor, and the cost of this has more than doubled in the past few years.

Under these conditions we can see no chance for lower prices until at least another harvest.

The question is also asked will agricultural implements be lower. This, of course, raises the question in regard to the price of steel, but it has been admitted that all industries are affected by the fluctuation in the market on steel and iron. We have had two great wars during the last century, the Civil War of this country from 1861 to 1865 and the Franco-Prussian in Europe in 1870 to 1871. During the Civil War there was practically little destruction of property as compared with the present war. After the Franco-Prussian War, which only lasted a little over a year, there was a large destruction of property but nothing as compared with the World War just won. In referring to prices we find that the price of foundry pig iron f. o. b. Philadelphia in 1861 was \$20.25 per ton. This material increased until in 1865, at the close of the war, it was \$46.12 per ton. In 1866 the price was \$46.87, in 1867, \$44.12 and in 1868 \$39.25. At this time the Bessemer Process of making steel had not been discovered and therefore common iron bars held the same relation to industry as common steel bars at the present time. In 1861 the price of common iron bars f. o. b. Pittsburg was \$2.30 per 100 lbs. This price gradually increased to 1865 when it was \$5.30 per 100 lbs. In 1866 the price was \$5.00, in 1867 \$4.50 and in 1868 \$3.70. Three years after the war had closed the price was \$1.20 higher than at the commencement of the war.

During the Franco-Prussian War the price of foundry pig iron f. o. b. Philadelphia in 1870 was \$33.25; in 1871 \$35.12; in 1872 \$48.87 or more than \$15.00 per ton higher nearly two years after the war closed than at the opening. In 1870 the price of common iron bars f. o. b. Pittsburg was \$3.30; in 1871 \$3.40 and in 1872 \$4.60. Nearly two years after the war closed the price was \$1.30 per 100 higher than at the opening.

In comparing the price of agricultural machinery to-day with the price 25 years ago, when there was no war, we find the prices now in war times are no higher and in a great many cases not so high as they were at that time, for the Spring Tooth Harrow was sold at \$25.00 in 1890 while now it can be bought for \$17.00. The Mowing Machine sold for \$55.00 to \$100.00, according to the size, while now it can be bought for \$75 to \$80 and the price of farm produce was not as high in these times as it is at present, so there is every reason why the farmers should produce more this coming season and it should be produced at a better profit than it was in time of peace.

There is no prospect of any lower price on farm machinery this coming season at least, for millions of tons of steel must be used in the reconstruction work. There is no question but what history of the past will be repeated and instead of sitting back waiting for lower prices we should go ahead and increase our production to provide for the increased demand on account of our being called upon to not only feed our own people and the Allies, but practically all the world until they can have time to recover and raise their own crops. It was said that FOOD WOULD WIN THE WAR and Food did win the War, but we must continue to feed not only ourselves but practically the whole world.

Statistics show that we raised in the year 1918 452,392 bushels less of corn than we did in the year 1917. It was less than the average yield from 1912 to 1916, so we must produce more corn. These are things worth considering when making your plans for the coming season.

Our pledge to the world is 20,000,000 tons of food for 1919. In 1918 we exported 12,000,000 tons. Before the war 6,000,000 tons. Now that the war has been won, let us do our duty by producing not only enough to feed ourselves but all those that are dependent on us.

ROSS BROS. CO.,

90-92 Front St.,

Worcester, Mass., U. S. A.



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



GENERAL DIRECTIONS FOR CUSTOMERS PLEASE READ CAREFULLY

ROSS BROTHERS COMPANY gives no warranty, expressed or implied, as to description, purity, productiveness or any other matter, of any Seeds, Bulbs or Plants it sends out, and it will not be in any way responsible for the crop.

THE CENTRAL SYSTEM

ANNOUNCEMENT—With this issue of our annual catalogue we adopt the Central System and will therefore discontinue the old method of selling seed by the pint, quart, peck, bushel or fraction thereof. Seeds will hereafter be quoted by the pound and hundred pounds. We are sure you will find it more accurate, more fair, and more sensible than the old method.

The Central System has long been used in Europe and has already been adopted here by law in several states and is applied to the selling of vegetables and foods of all kinds.

There are many times when the question arises: How many pounds in a bushel? Sweet Corn is perhaps the most confusing as there is no standard weight per bushel in any state; some varieties shelled weigh 45 pounds while some others will weigh up to 50 pounds per measured bushel. Before being shelled this same corn will weigh 10 or 12 pounds more per measured bushel. A bushel of Flint Corn weighs 70 pounds on the cob or 56 pounds shelled.

Recommendation as to quantity to sow will hereafter be made on the pound basis instead of by bushel.

All orders are acknowledged as soon as received and notice of shipment will be sent as soon as orders are shipped. After an order has been received and acknowledged by us it must not be cancelled; we may have an order ready for shipment or may have shipped it the day before the cancellation order arrives at our office. This means an expense to us for labor or for freight charges and in some cases the seeds are not returned to us until it is too late for the seed to be used. Therefore, it will be necessary for us to make a charge of 20 per cent on all cancelled orders.

ORDER EARLY—We endeavor to fill all orders as soon as received, but during the rush season of April and May, delays are sometimes unavoidable. This, however, can be partly overcome if our patrons will send us their orders early.

IMPORTANT—When sending money to cover cost of postage allow for weight of box or packing material. For example, allow for three pounds' postage on two pounds of Beans or other seed as the package when ready for mailing will weigh over two pounds.

PACKING—We make no charge for boxes, bags or packing, nor for delivery to Freight Depots or Express Offices in Worcester, Mass. This applies to retail trade only.

FREE DELIVERY—We deliver postpaid to any Post Office in the United States, Vegetable and Flower Seeds in packets, ounces, quarter pounds and pounds at prices quoted in this catalogue for such quantities. If larger quantities are wanted by Parcel Post postage MUST BE SENT. Grass Seed, Grains, Farm Implements and other heavy and bulky goods are sent by Express or Freight at purchaser's expense.

GRASS AND FIELD SEEDS—All Grass and Field Seeds, Onion Sets and Potatoes are shipped only at purchaser's expense by express or freight, as ordered. Prices quoted in this catalogue are F. O. B., Worcester. Small quantities of Grass or Field Seeds sent by Parcel Post if postage is added at parcel post rates.

REMITTANCES for small orders may be made in postage stamps but if stamps are used, care should be taken that they are not moistened by handling. Enclosing in oiled paper is much the safer way to send them.

FOR LARGE ORDERS, remittances should be made by Express Money Order, P. O. Money Order, Bank Draft, or Registered Letter, all of which are inexpensive and absolutely safe.

C. O. D. ORDERS. In no case will C. O. D. orders be accepted unless 25 per cent of the amount is sent with the order. If possible to do otherwise, do not order goods to be sent in this way. It is much preferable, when not convenient to remit with order, to give the order to an express company. The goods will generally arrive sooner, and the express companies make no extra charge for this service, as they do for collecting and returning money. No goods will be shipped with draft with bill of lading.

Parties having no account with us are requested to send references if they wish to open an account. Bank references always preferred. If not convenient to give that, give some Town Official. No reliable seed house can be expected to ship goods to unknown parties without references.

All prices in this catalogue are made as low as the quality of the goods will justify, but as the market on everything is liable to change, which is especially true on seeds and seed potatoes, prices quoted are subject to change without notice. This applies to both advance and decline in prices.

IT IS OUR CONSTANT ENDEAVOR to ship all orders promptly, and to use all possible precautions to prevent mistakes, but, for various reasons, slight delay in shipping is sometimes unavoidable, and mistakes will sometimes occur. Orders are always promptly acknowledged, and, if for any reason they can not be filled at once, the customer is notified. If, after a reasonable time has elapsed, the goods have not been received, nor either acknowledgment of order or notification of shipment, it may be assumed that the order has been miscarried or been overlooked. In such event we should be notified and the order repeated, when we will at once endeavor to trace the order, and having found it, give it precedence in filling and shipping over all others. All mistakes of whatever nature will be promptly and cheerfully rectified as soon as brought to our notice.

Customers having an account with us are requested not to use the order blank but instead use their own stationery.

DO NOT ORDER LARGE, HEAVY LOTS OF SEEDS SENT BY EXPRESS unless you are certain that you are willing to pay the express charges which, even with the reduction now made on such shipments by the express companies, are much more than freight charges.

But do not order a few pounds of seeds sent by freight which could be sent as cheaply, more safely, and which would reach you much sooner if sent by express.

NOTICE—While it is not our custom to substitute we feel that in the event of our being sold out of any variety it would be to the advantage of our patrons to allow us this privilege, for if on receipt of any substitute it is not perfectly satisfactory the same may be returned and money paid will be refunded.

IF GOODS ARE WANTED BY PARCEL POST, POSTAGE MUST BE ADDED AS PER TABLE BELOW, EXCEPT FOR THOSE QUANTITIES OR SEEDS WE OFFER TO DELIVER FREE

Parcel Post and Express

On shipments weighing 20 pounds or more it is cheaper to ship by express. As the express companies give a receipt for each package, and are responsible, it amounts practically to insurance without cost, whereas it costs extra, according to value, to insure a parcel post package.

Weight in Pounds	Local	ZONES							
		1st Up to 50 miles from Wor- cester	2nd 50 to 150 miles from Wor- cester	3rd 150 to 300 miles from Wor- cester	4th 300 to 600 miles from Wor- cester	5th 600 to 1000 miles from Wor- cester	6th 1000 to 1400 miles from Wor- cester	7th 1400 to 1800 miles from Wor- cester	8th Over 1800 miles from Wor- cester
1	\$0.05	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
2	.06	.06	.06	.08	.11	.14	.17	.21	.24
3	.06	.07	.07	.10	.15	.20	.25	.31	.36
4	.07	.08	.08	.12	.19	.26	.33	.41	.48
5	.07	.09	.09	.14	.23	.32	.41	.51	.60
6	.08	.10	.10	.16	.27	.38	.49	.61	.72
7	.08	.11	.11	.18	.31	.44	.57	.71	.84
8	.09	.12	.12	.20	.35	.50	.65	.81	.96
9	.09	.13	.13	.22	.39	.56	.73	.91	1.08
10	.10	.14	.14	.24	.43	.62	.81	1.01	1.20
11	.10	.15	.15	.26	.47	.68	.89	1.11	1.32
12	.11	.16	.16	.28	.51	.74	.97	1.21	1.44
13	.11	.17	.17	.30	.55	.80	1.05	1.31	1.56
14	.12	.18	.18	.32	.59	.86	1.13	1.41	1.68
15	.12	.19	.19	.34	.63	.92	1.21	1.51	1.80
16	.13	.20	.20	.36	.67	.98	1.29	1.61	1.92
17	.13	.21	.21	.38	.71	1.04	1.37	1.71	2.04
18	.14	.22	.22	.40	.75	1.10	1.45	1.81	2.16
19	.14	.23	.23	.42	.79	1.16	1.53	1.91	2.28
20	.15	.24	.24	.44	.83	1.22	1.61	2.01	2.40
21	.15	.25	.25						
22	.16	.26	.26						
23	.16	.27	.27						
24	.17	.28	.28						
25	.17	.29	.29						
26	.18	.30	.30						
27	.18	.31	.31						
28	.19	.32	.32						
29	.19	.33	.33						
30	.20	.34	.34						
31	.20	.35	.35						
32	.21	.36	.36						
33	.21	.37	.37						
34	.22	.38	.38						
35	.23	.39	.39						
36	.23	.40	.40						
37	.23	.41	.41						
38	.24	.42	.42						
39	.24	.43	.43						
40	.25	.44	.44						
41	.25	.45	.45						
42	.26	.46	.46						
43	.26	.47	.47						
44	.27	.48	.48						
45	.27	.49	.49						
46	.28	.50	.50						
47	.28	.51	.51						
48	.29	.52	.52						
49	.29	.53	.53						
50	.30	.54	.54						

IMPORTANT

In remitting postage always add it to foot of the Order as a separate item—this will help to avoid mistakes.

Your local Postmaster will inform you what Zone you are in from Worcester, if you are in doubt, and you can add postage accordingly.

International Parcel Post

We forward Seeds to any postoffice in foreign countries by International Parcel Post when mail routes are open. Full details in our "International Parcel Post Circular" mailed on application.



EVERYBODY KNOWS
ROSS' SEED GROWS



The Worcester Lawn Grass Seed

**WILL PRODUCE QUICKLY AFTER SOWING AN EXCELLENT LAWN
WHICH WITH PROPER CARE WILL LAST INDEFINITELY**

It is beyond question that a thicker and more prolonged growth is very generally produced by a combination of several grasses than by only one or two. The **Worcester Lawn Grass Seed** is a mixture of all the species which are, because of their fine, even growth, adapted for the lawn. Most of these grasses have also some feature or features peculiar to the species which make it a component like especially early growth, rapid development, hardness, remarkable tenacity, remaining green late in the fall, permanency, etc. Combined in well-balanced proportions, the result of years of study and observations, the Worcester Lawn Grass Seed will produce in a few weeks a fine, velvety growth, and each succeeding season a continuous thick growth from early in the spring until the ground freezes, forming a close, firm turf which will bear frequent cutting and constant trampling without injury. And with reasonable care this desirable condition of the lawn may be maintained permanently.

Worcester Lawn Grass is a mixture of the highest grade seeds of foreign and native grasses. The mixture is heavier than those generally offered, weighing about twenty-five pounds to the bushel, and is as free from weed seeds as it is possible to make it with the most improved machinery.

Whether you wish to seed a small grass plot or a large lawn you should use this grass seed mixture. For the convenience of our customers we put this seed in various sized packages from the one pound which is sufficient to seed about 300 square feet, the five-pound

package for about 1500 square feet, to such quantities as are sufficient to seed large lawns where 100 to 120 pounds per acre should be used.

One lb. 40 cts., 5 lbs. \$1.80, 10 lbs. \$3.40, 25 lbs. (one bushel) \$8.00, 100 lbs. \$30.00.

FROM U. S. GOVERNMENT

Department of Agriculture, Washington, D. C., Bulletin 494

"In procuring seed for a lawn too great care cannot be exercised. Pure seed of high germination is of great importance in securing a good stand of grass.

"Pure Seed is the keynote to a clean lawn, provided the work of preparing the land has been efficiently done.

"Thorough preparation involves not merely the mechanical treatment of the soil to reduce it to a proper seed bed, but the use of weed-free manure and the adoption of a course of treatment previous to preparing for the lawn, which shall serve to eradicate weeds. Such preparation coupled with pure seed, should give a satisfactory stand of grass which should need only the usual care necessary to maintain a lawn after it is once established."



Ross' Shady Spot Lawn Grass Seed

PRODUCES IN SHADY PLACES A FINE THICK TURF

Bare spots seriously affect the otherwise attractive appearance of many lawns, and while for renovating or filling such spots our Worcester or Park Mixtures are entirely sufficient, where such spots are caused by the shade of trees, a renovation can be better accomplished by the use of the **Shady Spot Mixture**. This is composed of varieties which thrive in shade. It includes all known varieties of this class otherwise adapted to the lawn, all of which are of dwarf habit and fine even growth. To secure a good growth, however, the soil should be properly prepared before sowing seed. Soil that is naturally moist, which has been densely shaded, often becomes sour, which is indicated by a growth of moss and sometimes by bog grass. In such cases, the moss or grass should be removed, the soil thoroughly worked over and an application of lime be given at the rate of one bushel to each thousand feet. If the soil is dry, and there has been no growth on it for some time, it is usually very hard and it is useless to sow seed without working it deeply and thoroughly pulverizing it.

What would be preferable would be to remove some of the soil and add new soil and rotted turf and thereby furnish humus, which soils on which nothing has grown for some time usually lack. While, if soil is well prepared, the growth will continue for some time, we do not claim the permanency for this that we do for the Worcester when used in the open exposure to the sun, as there are no grasses which, if cut often, will be as permanent in the shade as others in the open. This is especially true if the shade is very dense. We therefore advise yearly attention and applications of a small quantity of seed if growth is thin. Those who have hitherto been unable to secure a growth under trees because they have not used a special mixture, will find this of great value, and will be well repaid for any slight expense and trouble incurred in following our suggestions by the greatly improved appearance of the lawn.

Price, lb. 40 cts.; 5 lbs. \$1.85; 10 lbs. or over, 35 cts. per lb.

The Park Lawn Grass Seed

This mixture is prepared, as far as price will permit, on the same lines as our Worcester mixture. It is designed chiefly to meet a demand for a mixture somewhat lower in price for sowing various large areas and the less important places about the home, but is entirely adequate for all purposes. It comprises nearly all the varieties which form our Worcester mixture, though necessarily in slightly different

proportions, and does not contain any coarse-growing varieties. It weighs twenty pounds to the measured bushel, a weight exceeding that of many of the mixtures yet offered. Simply stated, the Park is a good mixture, the Worcester a better one. Four bushels are required for an acre of new seeding. A pound package is sufficient for about 300 square feet. 1 lb. 30 cts.; 5 lbs. \$1.35; 20 lbs. (1 bu.) \$5.00.



The Worcester Mixtures of Grass Seeds

For Meadows and Pastures—Productive—Permanent—Profitable

While on strong retentive soils and for a short duration there are perhaps no grasses superior to timothy or to that and red top combined and perhaps no others which will at first on strong soils give a larger yield, for a continual large production, especially on lighter soils, a combination of several other varieties is undoubtedly superior.

Mixture for Mowing for Medium Soil

On soil which is of average natural fertility and neither unusually dry nor wet, well enriched before sowing and regularly top-dressed, in short, on soil which will produce good timothy hay, this mixture will produce at first cutting a larger crop and a much heavier aftermath of hay, which, though not like timothy, salable in cities for feeding horses, is, nevertheless superior for feeding to both cattle and horses, because richer in nutriment, and more readily eaten because more tender; that is, if seed is used in sufficient quantity and crop is harvested at proper time. And not only will the product be greater at first, but, if properly treated, the land will continue in productive condition for many years. Forty pounds to the acre. Lb. 30 cts.; 10 to 40 lbs. 24 cts. per lb.; 40 lbs. or more, 22 cts. per lb.

Mixture for Permanent Mowing for Dry Soil

While dry land is not the ideal soil for a grass crop, much larger crops can be obtained with this mixture than with timothy and red-top, because it contains, in large proportions, varieties which thrive

on dry soil and of which some succeed on soil where both the former would utterly fail. 40 to 50 pounds to the acre. Lb. 30 cts., 10 to 40 lbs. 24 cts. per lb., 40 lbs. or more, 22 cts. per lb.

Mixture for Permanent Pasture for Medium Soil

Though many farmers so rotate their crops that the permanency of their mowing fields is not of great consideration, such as regularly pasture their herds, invariably desire that the pasture shall be permanently productive when once seeded. Aside from permanency, an important requisite is that of continual growth from early spring until fall. And as many varieties as possible should be used which bear constant trampling and continued close grazing. This mixture is prepared with these ends in view. 40 to 50 pounds to the acre. Lb. 30 cts., 10 to 40 lbs. 24 cts. per lb., 40 lbs. or more, 22 cts. per lb.

Permanent Pasture Mixture for Dry, Hilly Lands

In no situation are timothy and red-top so unsuitable for seeding as in a dry, hilly pasture, for both require strong, rather moist land to thrive for any length of time. This mixture is composed of grasses which thrive on light soil, endure long drought and bear, without injury, constant cropping. Lb. 30 cts., 10 to 40 lbs. 24 cts. per lb., 40 lbs. or more, 22 cts. per lb.

Golf Course Mixtures

For Putting Greens and Fair Greens

We have made a close study of the grasses used on Golf Courses and Pleasure Grounds, as there is no purpose for which turf is grown that is so exacting. No other grass is required to stand so much trampling and rough usage and it is very necessary that the correct proportions of the proper varieties be used to produce a firm, thick and lasting sod. The mixtures listed below are composed of native and European grasses which have proven of great value for this purpose. They are all of dwarf spreading growth, forming a close smooth surface which improves from year to year if given the proper care.

For Putting Greens, Lb. 40 cts., 24 lbs. (1 bu.) \$7.50.

For Fair Greens, Lb. 35 cts., 20 lbs. (1 bu.) \$5.00.





Grass Seeds of the Highest Grade

With the exception of when more than one grade of a species is offered the seeds of all grasses are of the grade known in the trade as "fancy." This is the highest grade obtainable and is as nearly pure as the greatest care and most improved machinery can make it. This should be considered when comparing our prices with those of other dealers. All the seeds offered have been tested by expert analysts either in this country or abroad and the purity and growth will be given, if desired, on application. We invite further analysis and microscopic examination and will send samples on application.

Prices of all Grass Seeds subject to market changes. Prices include bags or sacks. Unless otherwise noted, 25 lbs. at 100-lb. rate.

TIMOTHY (*Phleum pratense*). More largely used than any other grass but often when other varieties would be more profitable. 45 lbs. to the bu.

WORCESTER GRADE. Our Worcester Grade is a seed which is of the highest quality at the start. Taken from the best fields of full ripe seed, we can assure you, that after going through the cleaning process we can guarantee a purity of 99.5%. In the Worcester brand we are sure we are offering the best seed it is possible to obtain.

Price per lb. 20 cts., 50 lbs. or over 14 cts. per pound.

WACHUSETT GRADE. This grade is of fine quality, better than most seed offered as prime. We guarantee this 97.50% pure.

Lb. 18 cts., 50 lbs. or over 13 cts. per lb.

FANCY RED TOP. WORCESTER GRADE. (*Agrostis vulgaris*.) Next to Timothy this is the most largely used grass; it is highly recommended both as a permanent pasture and as a meadow grass for hay, throughout New England and the Southern States. It will not do well in sandy or leachy soils, but it is said to be adapted to a wider range of soil and climatic conditions than any cultivated grass grown in America. Used extensively in lawn mixtures. Lb. 20 cts.; 10 lbs. \$1.90; 100 lbs. \$18.00.

AWNLESS BROME GRASS (*Bromus inermis*). A hardy and productive grass, thriving on very dry and poor soil, where most other grasses would not grow. Lb. 35 cts., 10 lbs. \$3.00.

CANADA BLUE GRASS. (*Poa compressa*). Thrives on poor, dry soil, and also on hardy, clayey ground; withstands extremes of drought or wetness; bears trampling well and remains green till winter. A valuable grass for pastures. Lb. 25 cts., 10 lbs. \$2.00.

CREeping BENT (*Agrostis stolonifera*). Of rapid growth, fine texture and spreading habit. Forms a very close and permanent sod. Especially valuable for lawns. Market Price.

CRESTED DOG'S-TAIL (*Cynosurus cristatus*). Thrives best on moist, rich soil, but accommodates itself to nearly all soils. Grows well in the shade. Valuable in moderate quantity for permanent pasture and lawns. Lb. 35 cts., 10 lbs. \$3.00.

ENGLISH, or PERENNIAL RYE GRASS (*Lolium perenne*). Of rapid growth and productive; produces a strong growth in four or five weeks. Made into hay it is rather hard, but is very nutritious



Timothy

and is much relished by cattle and horses. Lb. 25 cts., 10 lbs. \$2.00.

HARD FESCUE (*Festuca duriuscula*). A variety of Sheep's Fescue, of dwarf habit; like that, thrives on poor soil and is very hardy. Market Price.

ITALIAN RYE GRASS (*Lolium italicum*). Thrives on a variety of soils, producing early and large crops. Though a perennial, it is short-lived and generally treated as an annual. Valuable for soiling. Sown in the fall, will produce a large crop of hay the following season. Lb. 25 cts., 10 lbs. \$2.20.

KENTUCKY BLUE GRASS (*Poa pratensis*). One of the most valuable grasses for pasture and lawn, requires some time to become established but lasts indefinitely on congenial soils. Much of the seed of this grass that is offered does not weigh over 14 lbs. to the measured bushel—the old standard weight—and even some offered as "fancy" does not weigh but 16 lbs.

FANCY EXTRA RECLEANED. 21 lbs. to the bushel. Lb. 35 cts., 10 lbs. \$3.00, 100 lbs. \$28.00.

MEADOW FESCUE (*Festuca pratensis*). Largely used for permanent mowing mixtures. Though at once productive, it does not reach its full production for two or three years, when it surpasses most other grasses. Succeeds best on cool, moist soil, rich in organic matter. Lb. 35 cts., 10 lbs. \$3.00.

MEADOW FOXTAIL (*Alopecurus pratensis*). One of the best pasture grasses; makes an earlier growth than any other variety, thrives best in low, moist land, but grows well on high, light soil and bears extreme summer heat without burning. Market Price.

ORCHARD GRASS (*Dactylis glomerata*). One of the most nutritious and valuable grasses, early, hardy, and permanent, and thrives in all soils and situations. Bears frequent mowing and constant cropping, and is very productive. Should be included in liberal proportions in most mixtures for both mowing and pastures. Lb. 40 cts., 10 lbs. \$3.40.

RED, or CREEPING FESCUE (*Festuca rubra*). A creeping-rooted grass thriving in dry, poor soils. Forms a close, firm turf and is valuable for shaded lawns. Also valuable for gravelly banks and exposed hillsides. Pound 45 cts., 10 lbs. \$4.20.

RHODE ISLAND BENT (*Agrostis canina*). Of fine growth, forming a close and permanent sod. One of the best lawn grasses and desirable for pasture mixtures. Market Price.

ROUGH-STALKED MEADOW GRASS (*Poa trivialis*). Thrives on moist, rich land. Valuable for both meadows and pastures, but should be used only in mixtures. Especially desirable for shaded lawns. Market Price.



Red Top



Crimson Clover (See next page)



EVERYBODY KNOWS ROSS' SEED GROWS



GRASS SEEDS—Continued

TALL FESCUE (*Festuca elatior*). On strong, moist, or clayey soils, very productive and permanent. Very nutritious, readily eaten by all stock; should form a part of all meadow and pasture mixtures for moist soil. **Market Price.**

TALL MEADOW OAT GRASS (*Avena elatior*). A very hardy species, making an early and luxuriant growth and continuing to grow until late in the fall and is, therefore, especially desirable for pastures. It makes good hay and when used for soiling, can be cut several times in the season. **Lb. 35 cts., 10 lbs. \$3.00.**

CLOVERS

(Prices include Bags)

All prices subject to market changes.

ALSIKE, or SWEDISH (*Trifolium hybridum*). This clover will thrive on soil that is quite wet and will even stand flooding without being killed. Very productive and sweet and is valuable for pasturage or hay.

Price lb. 45 cts., 10 lbs. \$1.20, 100 lbs. \$40.00.

Alsike Clover should be used to a great extent this season in place of Medium Red; it makes better hay and the cost of seeding is much less.

MEDIUM RED (*Trifolium pratense*). The well-known Red Clover. One of the best crops for hay and pasture; it is also used sometimes for a soil crop. A soil rich in lime and potash is essential for its best development.

Price lb. 55 cts., 10 lbs. \$5.00, 100 lbs. \$48.00.

MAMMOTH, or PEA VINE (*Trifolium pratense* var.). A species of the Red Clover commonly known as Sapling Clover or Pea Vine Clover. On good soils this will produce a much larger crop than the Medium Red and as it is in bloom a little later is considered better for sowing with Timothy.

Price lb. 55 cts., 10 lbs. \$5.10, 100 lbs. \$49.00.

CRIMSON (*Trifolium incarnatum*). This is an annual Clover and thrives best on a warm sandy soil. It is a rapid growing plant and is valuable for early pasturage and as a green manure. **Market Price.**

WHITE (*Trifolium repens*). Used in nearly all mixtures for lawns and valuable for pastures. It will thrive in almost any situation but is especially adapted to moist soils. **Price lb. 55 cts.; 10 lbs. or over 50 cts. per lb.**



Medium Red Clover

SWEET CLOVER

(*Melilotus Alba*)

This variety of clover can be grown anywhere in the United States. It grows freely along the roadsides and in waste places. As a bee pasture it ranks among the best and before its possibilities as a hay crop were known it was extensively used by bee-keepers as a pasture for bees. **Price lb. 35 cts.; 10 lbs. or over, 30 cts.**



Japanese Millet

MILLETS

(Prices include Bags)

HUNGARIAN GRASS (*Panicum Germanicum*). Used extensively for forage and to some extent for hay. Withstands drought well, succeeds on ordinary soil, and on rich land two crops may be grown the same season. One bushel, (48 lbs.) to the acre. **Lb. 15 cts., 10 lbs. \$1.20, 100 lbs. \$9.00.**

GOLDEN MILLET (*Sctaria Italica*). Of stronger, and taller growth than the preceding and requires richer land. Has an abundant foliage; is, therefore, an excellent forage crop and makes a coarse, rather harsh hay, but which is readily eaten by all kinds of stock if cut at the proper time. 50 lbs. to the bushel, $\frac{3}{4}$ to 1 bushel to the acre. **50 lbs. \$3.25, 100 lbs. \$6.50.**

JAPANESE BARNYARD MILLET

(*Panicum Crus-galli*)

Sometimes called Billion Dollar Grass. Grows 6 to 7 feet high.

The seed from which, so far as known, all the Japanese Barnyard millet now cultivated in the United States has descended was brought to Amherst from Northern Japan by Wm. P. Brooks, now Director of the Massachusetts Agricultural Experiment Station, in 1889. Prof. Brooks, who had become impressed with the great value of the crop for forage, began distributing seed in small quantities to private farmers in various parts of the State. The success of the crop was immediate.

Prof. Brooks adopted the name Barnyard Millet on account of the fact that this millet belongs to the same species as the common barnyard grass, which is so common a weed in cultivated fields in many parts of the United States. The Japanese Barnyard Millet, however, although belonging to the same species, is quite different from the common barnyard grass, having been selected and improved for centuries in the Orient for seed production. The principal differences from a practical point of view are these: The plant is much more erect in its habit of growth. The heads are larger and far more compact. They are practically awnless, whereas the awns are very long and prominent in the heads of the ordinary barnyard grass.

Like all coarse-growing plants it needs abundant plant-food and, when given this on good soil, the yield is immense. While its use has been largely confined into soiling purposes, it may be used for ensilage and is when cut at the proper stage and made to hay, readily eaten by both cattle and horses. It may be sown from May 15 to July. Sow 15 to 25 lbs. per acre. Circulars describing it more fully mailed on application. **Lb. 15 cts., 10 lbs. \$1.20, 100 lbs. \$9.00.**

SUDAN GRASS

What Sudan Grass Is

It is the most prolific and dependable hay crop in the area of limited rainfall in the North and West. Introduced into the United States by Professor C. V. Piper, of the Department of Agriculture, in 1909, it has surpassed the fondest expectations and undoubtedly will replace the millets over a large area where the latter are hay producers at the present time.

If planted in drills, cultivate often and shallow. The roots grow near the surface, and deep cultivation after the plants get well started will cut off a large proportion of the roots and reduce the yield. The cultivation may be done with the ordinary corn cultivator. Keep the soil well worked until the plants cover the ground so that weeds will not grow.

The illustration shown here is a photograph taken of a field of our Sudan Grass grown in Wor-



Sudan Grass grown by Mr. D. L. Brooks in 1916, Worcester, Mass.

cester, Mass., by Mr. D. L. Brooks in 1916. The seed was sown about the middle of June, the photographs were taken Aug. 25, after Mr. Brooks had been cutting for two weeks. Mr. Brooks says, "the cattle eat it readily and it produces more milk than millet when fed green, it will withstand wind and storm without lodging, in fact I believe it superior to millet in every way. I shall sow more next season."

SUDAN GRASS. Price lb. 30 cts., 10 lbs. \$2.50.

No charge for bags to retail customers.

SEED OATS

ROSS' "SWEDISH SELECT" OATS

Extra Heavy Re-cleaned Seed

Introduced a few years ago by the U. S. Department of Agriculture and to-day the most largely planted of all varieties in the Northern Central States. Briefly described the oat is pure white in color; the hull is thin and the kernel large and plump; straw is stiff and strong enough not to lodge. A remarkable root development makes the Swedish Oat a good drought resister—a special feature on light soils. Season medium early and the earliest of the heavy yielding sorts. Especially suited to high land.

Price, pk. 60 cts., bu. (32 lbs.) \$2.00, 20 bu. or more \$1.75 per bu., bags included.

WASHINGTON

This variety produces a good stiff straw, with a heavy well-balanced open head, of the tree type which is more apt to stand up in wet weather than the side oat. The grain is heavy and plump, the shuck very thin. It is a very hardy and productive oat and sure to give satisfaction.

Price, pk. 60 cts., bu. (32 lbs.) \$2.00, 20 bu. or over \$1.75 per bu., bags included.



EVERYBODY KNOWS ROSS' SEED GROWS



SEED OATS

We make no charge for bags or sacks to our retail customers.

It pays to buy the best, whether you wish to cut for green feed, for fodder, or ripen for grain.

Don't deceive yourself by thinking that common oats that you can buy at any grain store at a reduced price are just as good as some of the best named varieties, just because you are going to cut it green. Any one of the several kinds we offer will produce enough more feed to many times over pay for the difference in price. This has been proved by actual test and we are confident that in the stover, alone, you will get enough more feed to more than pay the difference in the price of the seed. You also get heavier and plumper heads filled with grain that will produce milk at a lower cost than almost any kind of green feed.

All we ask is a trial, and we are confident that you will be convinced that we are right.

ROSS' SILVER MINE OATS

This Oat has a reputation as an exceedingly heavy and reliable yielder. It is very hardy and prolific and yields a very white kernel and for this reason is used extensively in the manufacture of rolled oats.

The heads are very large in proportion to the stiff bright, clean straw, but they are borne so



Field of White Tartar Oats, grown on our own grounds

far down on the stalk that this variety seldom lodges. This is a very desirable feature when oats are grown for grain or even for hay.

Price, pk. 60 cts., bu. (32 lbs.) \$2.00, 20 bu. or over \$1.75 per bu.

LONG'S WHITE TARTAR

One of the Best, if not the Best Oat
Grown for Grain

Reports from all sections show that this is an extremely productive variety. It is also very early, of remarkably vigorous constitution and is suitable for all soils. The straw is long and stout and not liable to lodge or twist. The heads are from 8½ to 10 inches in length and grain is of the largest size and remarkably plump and heavy, with thin hull. In its combination of desirable features, extreme earliness, great production of heavy, plump grain and long stout straw, the Long's White Tartar is not surpassed by any of the popular varieties. The White Tartar will yield as high as forty bushels to the acre.

It produces a compact head which leans slightly to one side but is not what is called the side oat, the head being more compact than in the case of the side oat. The grain is large and plump. It is an oat that is sometimes sold under the name of White Plume.

Price, pk. 65 cts., bu. (32 lbs.) \$2.25, 20 bu. or over \$2.00 per bu.



Silver Mine Oats

Alfalfa or Lucerne Can Be Grown in New England

Facts About Alfalfa

There is no state in the Union in which Alfalfa cannot be successfully grown. Alfalfa is worth more than clover for it has a higher feeding value and it yields more per acre.

It has as much protein as wheat bran. Over 300 stalks have been grown from one seed. It will grow 3 to 5 crops in a season. Alfalfa does not exhaust the soil, it enriches the soil. In money value it is worth far more than clover or Timothy hay.

As a soil builder the Experiment Stations tell us that it adds twice as much nitrogen to the soil as the average acre of Red Clover.

Just bear in mind that the Alfalfa plant produces an enormous root growth, these roots penetrate the subsoil to a great depth, loosening the potash stored below, making it available as plant food in such a manner as is impossible to duplicate with a plow.

Method of Curing Alfalfa Hay

There are certain fixed rules that must be followed in order to make a success of any undertaking and there is no one thing in the farming line where this rule applies more than in growing Alfalfa. Probably nine-tenths of all the Alfalfa seed that has been sown in New England during the past ten years has been thrown away and simply because these rules that must be followed had not been put to use. Alfalfa when once established is nearly as everlasting as the hills. Sowing Alfalfa out of season without proper protection is more disastrous than sowing any of our cereals out of season. We all know that Oats should be sown in the early spring to get the best results, we also know that the Millets do best sown in June and early July, while Winter Rye must be sown in the fall. With these facts in mind you will no doubt ask when is the time to sow Alfalfa, and this brings us to the most important question of all in connection with growing Alfalfa. While the following rules apply to the New England States, they can be used in the middle and southern States by extending the time just as much later as each State is ahead of our northern States in climate. Three



Northwestern Grown Seed. We guarantee this to be 99% pure—and absolutely free from dodger and tree-foil.

Price—1 lb. 30 cts., 50 lbs. or more 28 cts. per pound. No charge for bags.

things are necessary in growing Alfalfa: First, sweet soil, that is, soil free from acid. Sour soils can be made sweet by the application of Lime. Second, the soil must be well drained. If the water line is within 3 feet of the surface Alfalfa will not succeed. It may start but will soon die. Third, all soil must be somewhat humus. Alfalfa will not succeed on sod land, even if the seed has been inoculated. Soil which has been planted to corn or some other hoed crop for at least two years is necessary for Alfalfa. It should be thoroughly plowed in the spring and then harrowed at intervals of 2 or 3 weeks or as often as a crop of weeds appear, until August. The amount usually sown is about 15 to 20 pounds of seed to the acre, and if possible put it in with a grain drill, but as few of our New England farmers have these drills the next best thing is the Thompson Wheelbarrow Seeder. The seed should be covered about 1 inch deep. This can be done to best advantage by using a horse weeder, after which the ground should be rolled. Alfalfa is one of the leguminous crops and takes its nitrogen from the air providing the soil contains bacteria which is necessary to give it power.

GRIMM ALFALFA

GRIMM ALFALFA. So called from the fact that it was introduced in Minnesota by a Mr. Grimm from Europe who called it Norwegian Alfalfa. This strain of Alfalfa has proven superior to all others, coming through our most severe winters without being injured, where the ordinary strains sometimes suffer severely. The most important feature connected with the introduction of the Grimm Alfalfa is its spreading root and crown. Its spreading root allows it to be grown on land which has a subsoil that is impossible for roots to penetrate; while its crown being broad allows closer cropping or cutting without injury. We are able to supply True Grimm Seed. Price: Lb. 55 cts., 10 lbs. or over 50 cts. per pound.

THE MULFORD NITRO-GERM

THE MULFORD NITRO-GERM consists of pure, tested cultures of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

Legumes offer the best known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase the yield.

THE MULFORD NITRO-GERM is prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A., with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

Be sure to always specify the particular legume for which The Mulford Nitro-Germ is desired, otherwise we will not know how to fill your order.

Alfalfa (Lucerne)	Alsike Clover	Field Peas	Lima Beans
Crimson Clover	Mammoth Clover	Spring Vetch	Lupins
Sweet Clover	Burr Clover	Winter Vetch	and others.
White Clover	Cow Peas	Sweet Peas	
Red Clover	Soy Beans	Garden Peas	

PRICES: The Mulford Nitro-Germ is supplied for the varieties of legumes indicated, at the following prices: Half Garden Size Bottle, 1/4 acre 25c. Garden Size, (about 1/4 acre) 50c. One Acre Size, \$1.50. Five Acre Size, \$5.00. (Not returnable.) Special prices on lots of twenty-five acres or more on one order, either of one kind or assorted.

Garden and one-acre size will be sent postpaid, 5 acre size by freight prepaid. Parties wishing 5 acre size or larger quantities in a hurry can have their goods by express by paying their own charges.



Specimen plants characteristic of uninoculated and inoculated field of Alfalfa, on farm near Bynum, Hartford County, Maryland. The uninoculated plants turning yellow, though sown on ground richer and better than the inoculated field. Gain from inoculation nearly 500 per cent by weight.



EVERYBODY KNOWS ROSS' SEED GROWS



Grain and Miscellaneous Seed for Forage Crops

DWARF ESSEX RAPE

Prices include bags.

Sown in drills $2\frac{1}{2}$ feet apart, 3 lbs. to the acre. Sown broadcast, about 6 lbs.

Rape has a high feeding value. It makes an excellent food for fattening sheep and swine and is a good milk-producing food for cows. It is used for both pasturing and as a soiling crop, and is sown either alone or with oats, rye, or Canada peas, and often a good crop may be grown on land that has already produced a crop of some of the early-maturing grains. In the Northern States seed may be sown from the latter part of May to last of July; in the South, in September or early in October. Sheep and swine may be turned into the field and allowed to remain until the crop is eaten but as cattle waste much of the forage by pulling up the plants it is preferable to cut the rape and feed it to them. This is not only a more economical method but also permits of the feeding being made at a time when it is the least liable to taint the milk—that is just after cows have been milked. With sheep and cattle care should be taken at first not to allow them to eat too much as there is danger of injury from bloating, nor is it safe to turn them into the field or to feed them the rape when it is wet. There is, however, but little, if any danger of bloating with swine. Animals should have free access to salt at all times when pastured on this crop. When conditions are favorable the crop is ready for pasturing about eight weeks after sowing seed. By sowing seed early in the spring and at intervals of two or three weeks, a continuous supply of feed or pasturage can be obtained and at a time when the permanent pasture is liable to be short. Rape will endure quite severe cold weather and therefore will furnish feed for a considerable time after the ordinary pasture. True Essex-grown seed of our own importation. Lb. 20 cts., 10 lbs. or over, 18 cts. per lb.



Dwarf Essex Rape

in favorable seasons nearly white. On account of its attractive appearance and fine quality, the grain brings the highest price, while the variety is extensively grown for green forage.

Pk. 80 cts., bu. \$3.00

MANSURY. In our section this six-rowed variety is largely grown for forage. It yields abundantly. It is early and very vigorous in growth. The straw is strong and stiff and seldom lodges. The heads are long and well filled. No other Barley excels it for feeding or malting purposes.

Pk. 80 cts., bu. \$3.00

BARLEY

For grain, 2 bushels to the acre; for forage, 3 bushels, 48 lbs. to the bushel.

CHEVALIER. A two-rowed variety. Head is a little longer than the six-rowed varieties and the grain is larger, plump, extra-heavy and

BEARDLESS. Earlier than any of the bearded varieties and is generally considered more hardy. The straw is heavy and stands up well under a large crop. Very popular for forage and especially valuable for hay as the heads are entirely free from beards which when dry are thought to often be injurious to cattle. The grain, while it germinates well, is always light in weight and of rather inferior appearance and, though a productive variety the chief value of the Beardless is for forage or hay.

Pk. 80 cts., bu. \$3.00.

WHEAT

$1\frac{1}{2}$ bus. to the acre, 60 lbs., to the bus.

SPRING MARQUIS. Matures extra early, has a heavy stalk not quite as tall as Red type, which makes it less likely to lodge. The heads are extra heavy and beardless, producing a large, plump, dark red, flinty kernel.

Pk. \$1.00, Bu. \$3.50.

WINTER—RED CLAWSON. A bald variety adapted to most all soils. Can be depended on for good yield even in unfavorable seasons.

Market Price.

WINTER—KLONDIKE. A remarkably productive bald white variety, grain large and plump. Excellent for green feed.

Market Price.

RYE

For grain, 1 bus. to the acre; for forage or soiling, $1\frac{1}{2}$ bus. 56 lbs. to the bus.

SPRING. This is excellent for a catch-crop as it may be sown somewhat later than other grains and produces an abundance of green feed in the summer season.

Pk. 90 cts., bu. \$3.25.

ROSEN WINTER RYE

Rosen Rye produces a strong, vigorous straw and stools to a remarkable degree. The grain is large, plump, heavy and of beautiful color, commanding a premium on the market over other grains. Owing to its vigorous stooling property less seed is required, the practice being about one and one-half bushel per acre.

We believe that Rosen Rye is cheaper to sow even at double the price of common rye, for the excess yield will more than pay for the seed, not to mention the better quality and higher price to be obtained for the crop. Ask for price.



Klondike Winter Wheat



Leguminous Plants for Forage and Soiling The Nitrogen Gatherers and Humus Producers

Prices on this page include bags.

SWEET CLOVER

(Melilotus Alba)

This is a native of all parts of the United States and Canada and is a valuable addition to farm crops in most all sections; it thrives on most all soils but prefers a soil well supplied with lime. Sweet Clover is especially valuable in building up worn out soils; it will usually thrive better if planted alone and may be sown either Spring or Fall. About 30 pounds should be used per acre. Price per lb. 35 cts., 10 lbs. or over 30 cts. per lb.

SOY, OR SOJA BEAN

$\frac{1}{2}$ to $\frac{3}{4}$ bushel to the acre in drills $2\frac{1}{2}$ to 3 feet apart.

This is another valuable legume, growing in favor for forage and ensilage, often succeeding well on land too light for clover. While it has not been so generally grown in this country as the Cow Pea it is considered by some preferable for the North, as it does not require so long a season.

MAMMOTH EARLY YELLOW. Pk. \$1.40, bu. \$5.00.

ITO SAN. Ito San Soy should ripen anywhere in the North—it is Northern Grown Seed. Northern Grown Seed sown in the South produces larger yields, stronger vines, higher nutritive value. Matures in 90 days, grows $2\frac{1}{2}$ to 3 feet high. Immensely productive. Pk. \$1.65. Bushel \$6.00.

PEAS, CANADA FILLD

$1\frac{1}{2}$ bushel to the acre; with oats, 1 bushel. 60 pounds to the bushel.

For the Northern States on good soil there is probably no forage crop of greater value than Field Peas, sown either alone or with oats, and their great value for plowing into poor soils is well shown by the following:

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at a cost of millions of dollars."—(Year-book of the U. S. Department of Agriculture.) Pound 10 cts, 25 pounds or over 9 cts. per pound.

BUCKWHEAT

For grain, 1 bushel to the acre; for soiling $1\frac{1}{2}$ bushels. 48 lbs. to the bushel.

JAPANESE. This is entirely distinct from all other varieties. It has the advantage of remaining some time in bloom and produces seed earlier. On this account it can be grown farther north. It resists drouth and blight better than most varieties. The seed is larger than the Silver Hull and is a rich brown color.

Pk. 80 cts.; bu. \$3.00.



Field of Cow Peas

COW PEAS

In drills one bushel to the acre. Broadcast, 2 bus. 60 lbs. to the bu.

Cow Peas are as tender as beans and therefore the suggestion sometimes made that they may be sown with Oats is unwise. As they are of very rapid growth during the warm season they may in this latitude be sown as late as the first of July with a reasonable expectation of a crop suitable for fodder or plowing under.

Cow Peas produce an enormous bulk and for this reason the plant is a favorite with some as a forage plant and also as a humus maker when plowed into the soil. It is, of course, like all the legumes, a soil enricher as well. The Cow Pea will grow on all kinds of soils from stiff clay to sandy, barren uplands, and used either as green fodder, hay or as silage, the product is of high feeding value. While for plowing under on stiff clay soils the growth should be turned under while green, it is generally considered that on light sandy land the vines should be allowed to partially decay on the surface before they are plowed into the soil. All crops seem to do well after Cow Peas.

WHIPPOORWILL. The most popular variety in the North, very early. Pk. \$1.25.

NEW ERA. A new extra early variety, earlier than the Whippoorwill, maturing in about 60 days. Pk. \$1.25. Ask for price on larger quantity.

VETCHES

One bushel to the acre; with oats or rye, $\frac{1}{2}$ bu. 60 lbs. to the bushel.

SPRING VETCH, or SPRING TARE. This, like Field Peas, is used for both green fodder and for plowing into the soil. In this latitude it can be sown only in the spring and is more largely used in this season than the Hairy Vetch which may be sown either in the spring or fall. Thriving better on rather poor soil than Canada Peas, its use is rapidly increasing as a green fodder crop. Lb. postpaid 20 cts. By express, 10 lbs. \$1.20; 50 lbs. or over 10 cts. per lb.

WINTER, SAND, or HAIRY VETCH. (*Vicia villosa*.) While this will be of much larger growth on good soil and should be grown on such soil when the crop is designed for green fodder or hay, it thrives remarkably well on light, poor soil. Though it produces on good land an enormous crop and whether used green or as hay is more nutritious than Clover and readily eaten by all kinds of stock and is therefore a profitable crop to grow for feeding, it is perhaps of greater value for other purposes. No other legume surpasses it as a nitrogen gatherer and no other equals it as a cover crop. It is perfectly hardy, remaining green all winter and is therefore much superior to Crimson Clover in the Northern States as a cover crop. It also produces a much larger bulk than Crimson Clover and is therefore superior to it as a humus maker. In this respect as well as a cover crop it is fully equal to Winter Rye and is superior otherwise as, in common with other legumes, it adds nitrogen to the soil. Though rather slow in starting in the spring, when once started it grows rapidly and will generally, by May 1st, have made a growth of 18 inches or more. As the stems are rather weak, it is generally sown with grain which serves as a support. Seed is usually sown in August or September at which time either Rye or Wheat may be sown with it. If sown in the spring Oats are generally sown with it but sometimes Barley is used. When sown at this time the crop is generally used for feeding. Lb. 30 cts. postpaid, 10 lbs. by express \$2.75; 50 lbs or over 25 cts. per lb.



Soy Beans



EVERYBODY KNOWS
ROSS' SEED GROWS



The SHEFFIELD WORLD PRIZE FLINT CORN

Introduced by us in 1911 after its winning first prize at the New England Corn Show at Worcester, Mass., 1910. 123.9 bushels of Crib-Dry Corn per acre. This corn was also awarded a Silver Medal at the October Exhibition of the Worcester Horticultural Society, 1912.



SHEFFIELD WORLD'S PRIZE FLINT CORN which we introduced in 1911 is an early eight-row variety which has been grown in Vermont since 1867. The seed was brought to Sheffield, Mass., and has been grown in that town ever since. The ear of this corn has a very compact form, usually well capped at the tip, similar to the Improved Canada. The average length of the ear is 8 to 8½ inches, the kernels are very broad, and of dark color. This corn exceeds in proportion of corn to cob any other variety. In a trial made by Mr. Chapin, who won the first prize at the first New England Corn Show held in Worcester, in 1910, he found that it took but 63 lbs. of ears to make a bushel of 56 lbs. of shelled corn. This corn will mature in 90 to 95 days. Corn on our farms planted June 11 was safe and germinated very high, with a frost September 7.

Sheffield corn is a safe variety to plant where early frosts are expected or in states where the season is generally short. While it may be possible under favorable conditions and high fertilizing to produce more bushels of corn of some of the longer varieties, in our opinion the Sheffield is the safest and surest kind to plant for a general crop. Price ½ pk. 90 cts., pk. \$1.50, bu. \$5.00.

Arlington, Vermont, R. F. D. 2, Oct. 7, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—The Sheffield World Prize Flint Corn I got of you last spring did certainly do wonders for me. I have about 3 acres of the nicest corn I ever saw of which I will enclose some snapshots of same later.

Would be glad to hear from you, as to your handling it for seed, or have you plenty of it on your own fields. It was planted June 4 and matured in O. K. condition.

Very truly yours,

John L. Mattison.

During the planting season of 1918 the Seed Dealers of the United States found conditions which before have never been known. Through the late fall and early winter 1917-18, at the time all dealers were preparing their stocks of seed corn for the spring trade, thousands of germination tests were made and in almost every case the tests were satisfactory, showing a good germination. These tests in many cases were final tests, as it is well known that corn which will show a good germination during the winter should be equally as good at planting time. However, many were disappointed, corn in general when harvested during the fall of 1917 contained a very large per cent of moisture; more than usual and did not dry out before cold weather arrived. Corn which was stored in the usual places (in cribs or in barns) was in such a condition that severe freezing weather, such as has not been for years, froze this corn so hard that in some cases the germination was entirely killed; other lots of corn which gave excellent tests at first gave a final test of 50% or less. We wish every planter would read the following paragraphs which were published from the American Seed Trade Convention held at Chicago in June, 1917. Prof. A. L. Stone gave some interesting facts:

Prof. A. L. Stone of the University of Wisconsin, in addressing the association, said that he had not come to give but to receive information and that he appreciated the value of the experience of the seedsmen.

He told how corn that showed germination tests of 90 per cent and higher in January and was carefully stored under proper conditions, in March and April the same corn showed germination of 50 per cent or less.

Never in the history of those in the trade has there been a year when corn was in a condition similar to that of 1917-18. No seedsmen could possibly have foreseen what was coming to prepare for it, and no one knew how to control the conditions.



Sheffield Prize Flint
about ¾ size

STICKNEY'S YELLOW PRIZE FLINT CORN

ANOTHER PRIZE-WINNING STRAIN

This corn won at the National Corn Show in 1909 the first prize for best ten ears of flint corn grown in the eastern zone which comprised all the States east of Ohio and Kentucky. At the New England Corn Exposition in 1910 it was awarded the following premiums: The Sweepstakes for best single ear of flint and the Sweepstakes for best ten stalk exhibit of flint; the first for best ten ears of flint; the first for best 70 ears of flint; a special premium given by a manufacturing company and a gratuity of \$100 given by a fertilizer company for the largest field and yield. This field measured nine acres and the yield at harvest time was 819 $\frac{3}{4}$ bushels—an average of over 91 bushels per acre.

The ear of the Stickney is distinctly different from Sheffield, being considerably longer, approaching in length the Longfellow, but is thicker. Though the ear is thicker than the Longfellow the cob is not large. By shelling several bushels of ears it was found that 70 pounds of ears would make 63 pounds of shelled corn, which, while not equal to the Sheffield, is a considerably larger proportion of corn than the usual estimated proportion—56 pounds. The stalks of the Stickney are of about the same height as the Longfellow. The crop matures a very little earlier. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, bu. (56 pounds), \$4.50.

LONGFELLOW FLINT

This, for a long time, has been very popular in southern New England. Ears are eight-rowed and of remarkable length—12 to 14 inches, with occasionally one 15 inches. Stalks are considerably taller than the Improved Canada, but not so large but that they make excellent and easily handled dry stover. When well-grown, owing to the long ear and occasional twin ears, the Longfellow is a very productive variety. Though two ears to the stalk are, of course, desirable, we prefer to give more attention to securing a well-formed and well-ripened ear of typical length rather than to select for breeding stock from stalks bearing two ears if at the sacrifice of any of the above mentioned qualities. The Longfellow is safe for planting in the latitude of Massachusetts, and in favorable seasons has yielded large crops farther north.

$\frac{1}{2}$ pk. 75 cts., pk. \$1.25, bu. (56 lbs.) \$4.50.

EARLY CANADA FLINT

Improved strain. This strain is in most respects identical with the original, but the ears are longer and stalks are of slightly larger growth. Ears of the original are about six inches in length, while of this strain they are about two inches longer, and of similar or nearly identical strains known as Early Greenfield, Deerfield and Connecticut Valley, ears are often nine inches or longer. While in the hands of different growers the type has been largely maintained, the tendency to select larger ears has been followed by an increased growth or size of stalks making such strains later in maturing. We prefer and endeavor to procure a strain of which the ears are about eight inches long with as small stalks as possible because earlier and more distinct from other varieties, and also more desirable for light soils of only average fertility and for late planting. On stronger and richer soils there are other varieties which would probably be preferable, though because of its earliness therefore, the more nearly certain maturity in unfavorable seasons, its great production of ears and more easily handled dry fodder it is preferred by some for planting on their best and richest land.

$\frac{1}{2}$ pk. 75 cts., pk. \$1.25, bu. (56 lbs.) \$4.50.

IMPROVED LEAMING

The Leaming corn was originated in Ohio in 1826 by Mr. J. S. Leaming. This corn was taken to Illinois by the late Hon. E. E. Chester of Champaign County, Ill., over fifty years ago and since then many strains and varieties have been started from this, one of the oldest known varieties of dent corn.

The True Improved Leaming which we offer is a pure, fixed, and distinct variety, having been bred for earliness of maturity, size, shape and color, also for the amount of grain that each ear will produce and in doing this the fact is brought out that the True Leaming is second to none (save our Eureka) in the amount of silage that can be grown per acre.

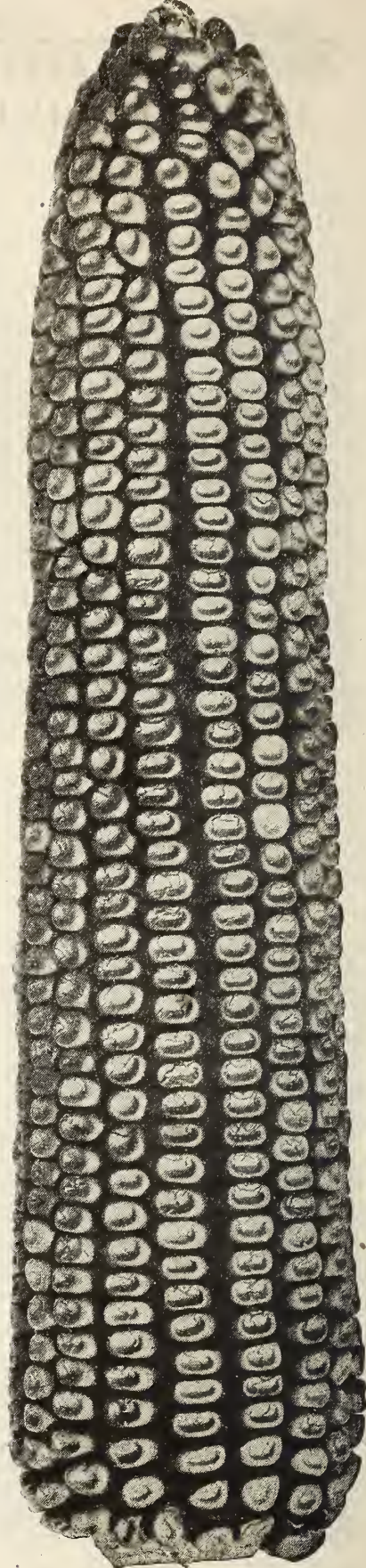
While Leaming corn is not grown extensively in our New England States to maturity, it is perhaps grown for silage to a greater extent than any other dent variety except our Eureka. It ranks as one of the early dent corns, has a very heavy stalk growing twelve or thirteen feet high and very leafy. The ears are eight to ten inches long, filled with medium sized but deep kernels which when dry perhaps approach more closely in hardness the flint type than any other dent corn.

Price: Pk. \$1.25, bu. (56 lbs.), \$4.50. 10 bushels or over \$4.40 per bu.

All prices on corn include bags.



Longfellow



Leaming



EVERYBODY KNOWS
ROSS' SEED GROWS



CORN FOR FEED, FODDER AND ENSILAGE

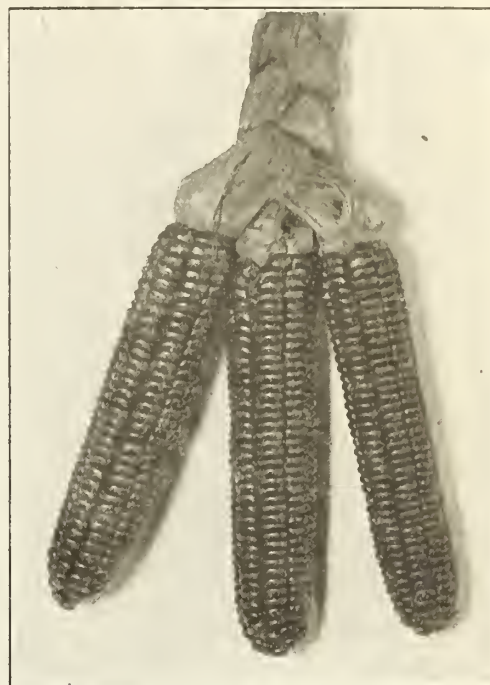
RED TOP FARM White Flint

We offer this season an exceptionally fine lot of White Flint, well grown and carefully selected for seed.

It is an eight-rowed white flint variety, the popular type in Rhode Island, being cultivated there almost to the exclusion of the yellow flint. The ear of the strain which is more generally grown there and which we offer as the Rhode Island strain, is of about the same size as the Improved Canada, resembles it very closely, except in color, having the same broad kernel and well-filled tip, and ripens with or very close to it. The variety is rather more leafy than other flint varieties, which is doubtless the reason of its popularity for ensilage in the northern part of New England. The strain, however, which is more largely grown for ensilage, is seed which is grown in the West, and distinctly different. The stalks grow much taller and are more leafy and the ear is much longer and later in maturing.

grown in Rhode Island, we know that the strain which we offer is the most productive, yielding more bushels of corn per acre and also shelling more pounds of corn per bushel.

Price: $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, bu. \$4.50.



Red Top Farm White Flint Corn

While there are three distinct types of White Flint Corn that the strain which we offer is the most productive, yielding more bushels of corn per acre and also shelling more pounds of corn per bushel.

WHITE CAP YELLOW DENT

Nearly as early as the Pride of the North with larger ears. The introducer says he will guarantee this corn to mature in ninety to ninety-five days from planting and to produce a larger crop on poor soil than any other variety. Stalks eight to nine feet high, with an abundance of foliage. Ears about eight inches long, sixteen or eighteen rowed, and well filled with deep kernels, the outside ends white, the balance light yellow which gave it the name "White Cap." The early and great production of ears and abundant foliage should make this a popular variety with those who desire ears well advanced toward maturity at the season for cutting for the silo. In this respect it is probably superior to the popular Early Mastodon, as, though the ears are not as large, they are considerably nearer maturity at the season for cutting for ensilage, while the stalks are of good size and fully as leafy. Pk. \$1.25, bu. (56 lbs.) \$4.50.

EARLY MASTODON

A dent variety second in popularity to the Leaming. Ears are the largest of any of the early strains of dent corn while the plant is the most productive of all the dent varieties. The stalks grow about the same height as the Leaming, possibly a little taller and are very leafy. On account of its early and remarkable production of large ears it is a favorite with some for ensilage. Unfortunately, though the ears are produced earlier owing to the large, soft kernels they require a long time to ripen. Seed therefore is difficult to cure in the ordinary way in the time which can be allotted to it and is, in unusually warm spells in early spring, liable to heat after being bagged. For this reason we now offer only seed which has been kiln-dried. This treatment will, we think, prevent any tendency to heat and though it adds a trifle to the cost, this is hardly comparable with the increased value of the seed because of its more certain germination. Regular Commercial grade. Pk. \$1.25, bu. (56 lbs.) \$4.50.

RED COB ENSILAGE

A large, tall growing variety, popular for ensilage. Pk. \$1.25, bu. (56 lbs.) \$4.50.

KING OF THE EARLIEST

This dent variety, a selection from the Pride of the North, made by the originator of that variety, is from ten days to two weeks earlier, which we think makes it safe for planting in this latitude for the purpose of maturing grain. The cob is small and although the ears are not long the kernels are very deep and the yield is large. We may say here that more attention is being given in the East to the dent varieties for growing for grain than formerly and they are in a few localities grown almost to the exclusion of the flint type. The growers claiming a much larger yield from the dent. Pk. \$1.25, bu. (56 lbs.) \$4.50.

PRIDE OF THE NORTH

An early dent variety, which has been grown in the East to some extent for grain and to a greater for ensilage. Although not of as rank growth as other varieties of this type, it is on account of its early production of ears popular with some for the latter purpose, especially with those having cold clayey soil. Pk. \$1.25, bu. (56 lbs.) \$4.50.



ROSS' EUREKA ENSILAGE CORN

HAS A RECORD OF 70 TONS AND 800 LBS. OF CORN GROWN ON ONE ACRE. Enough to feed 7 head of cattle for one year and enough left over for 261 days, feeding at the rate of 50 lbs. per day.



Photograph of Eureka Corn taken on the old brick farm, Long Island

Don't buy a Bushel of Eureka Corn unless it has our trade mark printed on the bag. There is nothing just as good, and you are sure to lose as many dollars as you save cents in the beginning.

Price, bags included, $\frac{1}{2}$ Pk. \$1.00, Pk. \$1.75, Bu. (56 lbs.) \$5.00, 10 bushels or over \$4.75 per bu. in our trade-marked bags.

This corn was originated in Virginia about 25 years ago and has been grown on the same farms there for us ever since. It is the result of careful selection for many years from the old southern prolific corn which often has 5 to 8 ears on a stalk. This selection was made with the view of getting a larger ear and more foliage. It has been grown entirely away from other kinds and it is a distinct variety and a great improvement over any other Southern White Dent Corn.

Corn has been offered by others under the name of Eureka but is simply the common Southern White that they are offering and at the time of cutting there will be as much difference as there is between Crosby and Stowell's Evergreen. Eureka is a Smooth White Dent Corn with short kernels, while many of the southern white varieties have the horse tooth kernels. There is but one Eureka Ensilage Corn and that is put up in our trade marked bags. Be sure and get the genuine. Either buy direct from us or other dealers who are handling it in our trade marked bags.

ROSS' EUREKA ENSILAGE CORN grows the tallest, has the most leaf, will produce more tons of good material for the silo than any other kind. Eureka Corn not only grows the tallest, has the most leaf, but is as well very productive of ears. In the South it usually yields about 100 bushels of shelled corn per acre and sometimes considerable more. In the Northern States Eureka should be sown strictly as an ensilage variety for it will get into proper condition for cutting early in September. Its value for ensilage is due to its enormous growth and great production of leaf and ears. Matured corn should never be put into a silo.

We sell other varieties of corn used for ensilage and if it is desirable to have a variety of corn that will mature its ears, then to our customers in the Northern States we will recommend some such variety as Leaming or Mastodon. While Eureka Corn will not mature its ears in any of the Northern States where frosts are expected early in September, we have seen ears far enough advanced so it will no doubt germinate all right grown right here in Massachusetts. If ears are wanted they can be had on Eureka by planting it thin and where frosts hold off until the first of October, you will get plenty of ears and more leaf than you will get from any other variety of corn grown, but if the main purpose of the silo is to preserve in as nearly as natural a condition as possible the largest amount of fresh green foliage, and large fresh green ears which can be grown on the smallest possible area, then Eureka is the corn to grow. In our opinion and in the opinion of hundreds of the best farmers in the United States, this is the best corn in cultivation.

When is the proper time to cut Ensilage? Corn for the silo should be cut when it is in the blossom.

Don't look for the ear; simply watch the tassel. It is better to cut corn too early than too late. Mature ears should never be put in the silo. The grain-bin is a much better place. The silo was not invented as a substitute. Read what Webster's Dictionary gives as a definition of these two words, "silo" and "ensilage."

Fort Salonga, L. I., Nov. 12, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—In regard to the Eureka Ensilage Corn which I bought from you last spring, will say that I have no kick coming. I don't believe that there was a single kernel which did not come up. I filled two silos, one 12 ft. by 45 ft. and one 10 ft. by 35 ft. with what I bought from you and never had it grow better and more ears on than this year. Yours truly,

L. R. Longbothum.

Three Oaks, Mich., June 6, 1918.

Ross Bros. Co., Worcester, Mass.

Gentlemen:—We have now got in practically all the Eureka Seed Corn we bought of you last Spring and have never had as good a stand of corn and certainly want to congratulate you on being able to pick out good seed corn, as the stand which we have got of our own of over 100 acres is fine and the corn that we let our neighbors have, shows a fine stand. Very truly yours,

E. K. Warren & Company,

By C. K. Warren.



EVERYBODY KNOWS ROSS' SEED GROWS



DON'T TAKE OUR WORD FOR IT

Look at the Illustration Below. This is Made From a Photograph of a Field of Eureka Corn Which Yielded 70 Tons 800 Pounds on One Acre.



View of the Field of Corn Grown by Mrs. H. Will Harris, Michigan.—Winner of Our \$50.00 Gold Prize for Heaviest Yield of Eureka in 1911. Yield, 70 Tons 800 Pounds—Enough to feed seven head of cattle for one year and enough left over for 261 days. This is some corn.

Read What Some of Our Customers Say about Eureka Corn.

Waterford, Pa., R. F. D. 4, Nov. 12, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—In regard to Eureka Corn, will say that I had a splendid stand of corn, don't believe I ever had any better. I have always found your seed corn to be first class and will want more in the spring. Yours truly,

J. C. Bonnell.

East Jordan, Mich., Nov. 4, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—As usual we had very good success with your Eureka Ensilage Corn, believe 100% grew. Wish you were here so I could show you our herd of Registered Herefords. As ever,

Charles Carson.

Goshen, Ind., Nov. 9th, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—In regard to the Eureka Seed Corn, will say I had the best of luck with what I received, think fully 95% grew. Send price list next year as will want seed next spring. Respectfully yours,

Wallace Butts, R. R. 1.

Hudson, Mass., Nov. 11, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—About the Eureka Ensilage Corn. When I planted the corn I planted a little heavier than usual but it all came well. I had corn 18 to 20 feet high on a 3 acre piece and 16 feet on 1½ acres without fertilizer. Yours truly,

John Kiessling.

Winthrop, Me., Nov. 5, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—The Eureka Corn purchased from you last season proved very fine and done extra well. Yours truly,

P. S.—Shall want some this coming season. A. W. Black.

Earlville, N. Y., Nov. 2, 1918.

Ross Bros. Co., Worcester, Mass.

Gentlemen:—Answering yours in regard to the germination of your Eureka Corn.

Crop was very satisfactory, germination nearly 100% as usual. Yours very truly,

A. C. Fay.

Amsterdam, N. Y., Nov. 13, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—The Eureka Seed Corn which I purchased from you last spring made a fine growth, and was satisfactory in every way. Yours very truly,

Richard D. DeForest.

State of Connecticut.

Mansfield State Training School and Hospital,

Mansfield Depot, Conn., Nov. 14, 1918.

Ross Bros. Co., Worcester, Mass.

Gentlemen:—The Eureka Ensilage Seed Corn received from you last spring was excellent and we could not ask for a better crop than we had this year. Yours very truly,

W. B. Farrington, Steward.

Allenton, Wisconsin, Nov. 17, 1918.

Ross Bros. Co., Worcester, Mass.

Gentlemen:—The Eureka Ensilage Seed Corn bought from you last spring was the finest corn for ensilage that ever was grown in this part of Wisconsin.

This is a common remark of all farmers who have seen it, and the corn is fine, too.

It mostly grew on clay soil, and was from twelve to fifteen feet in average, and had from two to three cars. Sincerely yours,

Mr. Joseph Brodzeller.

Buffalo, N. Y., Nov. 4, 1918.

Ross Bros. Co., Worcester, Mass.

Gentlemen:—I have yours of the 31st.

I have used the "Eureka Corn"—as you know—for several years, on our farm in Canada, and we got the seed over, last year, just before the embargo went on.

We certainly had very nice corn and well pleased with the seed. We, of course, shall expect to place our order soon, if we can ship it across. Yours very truly,

W. C. Houck.



SWEET CORN

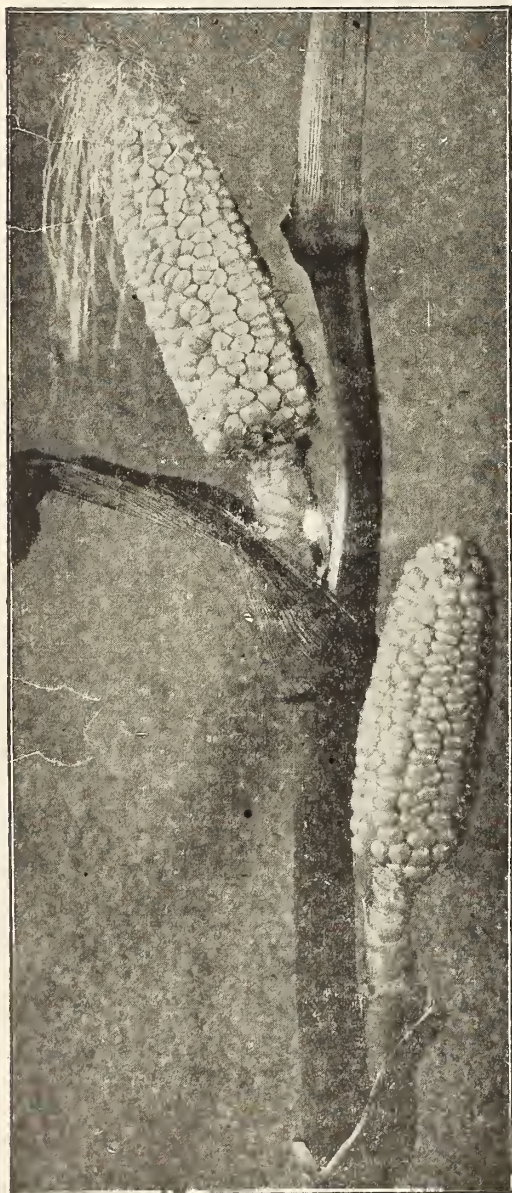
THE BEST SEED. THE BEST VARIETIES

2 Pounds will plant about 200 hills, 10 to 12 pounds to the acre

We pay postage on one pound or less; for larger quantities by parcel post remit postage. See page 2.

Sweet Corn should not be planted until ground is warm, and can not usually be safely planted in this latitude much before the middle of May. The small, early varieties may be planted in the garden as close as 2½ by 2 feet, but in the field, are generally planted 3 by 2 or 2½ feet. In the small garden, however, a more economical use of space can be made and the product secured a little earlier by making rows several feet apart, planting in the intervening space any early, low-growing crop like radish, spinach, or lettuce, and following this with a second crop of cucumbers for pickles, winter squash, celery or turnips, the corn ripening in time for removal of the stalks before they greatly interfere with the growth of the second crop. The later and larger varieties require more room. Corn thrives best on warm, rich soil and succeeds only when given frequent but shallow cultivation. But three stalks should be allowed to grow to a hill.

To have the finest Sweet Corn it must be picked in just the right condition, that is, when the skin of the grain breaks at the slightest puncture. It will be of inferior quality if it is either a few days too old or too young.



Golden Cream

GOLDEN BANTAM

A Favorite With All Who Have Grown It.

Golden Bantam is becoming so increasingly popular that it has been almost impossible for those who grow it to keep up to the demand. It has gained such a nation-wide reputation that many summer hotels feature it by name. It is fast making new friends every season. Golden Bantam is dwarf, the stalks usually are 4 to 5 feet high and the foliage is short, allowing it to stand closer together in the small garden and thus produce a large crop on a small area.

When Golden Bantam is ready for use it is a rich, creamy yellow, which deepens to an orange-yellow as it ripens. We especially recommend Golden Bantam for our New England climate, in fact, for any climate where sweet corn can be grown. It may be used as a first early and if planted every ten days from the end of May until the tenth of July a continuous supply of the finest sweet corn may be had the entire summer.

For earliness Golden Bantam ranks ahead of those varieties such as the White and Red Cory, which have so long been used as extra early.

Regarding flavor, Golden Bantam stands in a class by itself. It is deliciously distinct and superior to any other sweet corn, proof of this is the fact that it has a decided preference in the markets, in the restaurants and hotels and in the home, where those who can grow it in the garden have the privilege of enjoying the best "Sugar Corn" it is possible to obtain. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts per lb.

GOLDEN CREAM

This sweet corn is of California origin and the result of crossing the Golden Bantam on the Country Gentleman. As indicated by the illustration the Golden Cream resembles the Country Gentleman in appearance, having the same irregular rows, and has also the deep-pointed kernel and slender cob of that variety, otherwise it is entirely distinct, being of dwarf habit in growth, having an ear about the length of the Golden Bantam, and differs from the Country Gentleman in time of maturity, being very early.

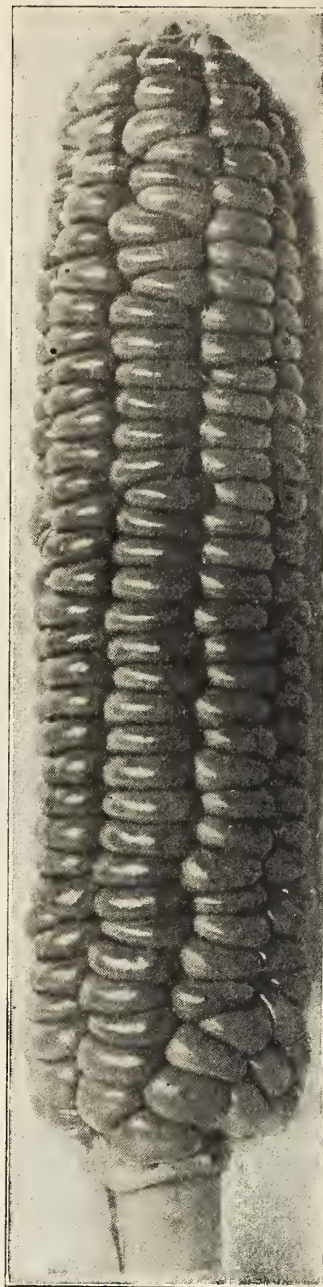
The Golden Cream is of unsurpassed quality, having the peculiarly rich flavor of the Golden Bantam and the tenderness of the Country Gentleman.

It is remarkably productive, bearing very generally two or three ears to the stalk, and sometimes four. The color, when at the stage suitable for eating, is a rich cream, cooking to a light golden yellow.

The combination of good qualities of the varieties which produced the Golden Cream insuring to a reasonable degree of certainty that the product would be of more than ordinary quality, its earliness and productiveness, should induce a trial of it by all who cultivate sweet corn. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

GOLDEN DAWN

It ripens with the Early Crosby and grows about 5½ feet high; very productive, having two or three good ears on a stalk. The ears are eight to twelve rowed, filled out to the very end. The color is a golden yellow and the quality is unsurpassed. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.



Golden Bantam



SWEET CORN—Continued



Early Evergreen

BLACK MEXICAN. A popular variety; until the introduction of the Golden Bantam, the sweetest of all. Ears of medium size; kernels large, when ripe bluish black, but at proper stage for cooking, the color shows but little, if at all. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

COUNTRY GENTLEMAN. Medium size, with irregular rows of very deep and slender kernels and small cob. Sweet and tender, not surpassed in quality by any other variety with white kernels. Plant very productive, often yielding three and sometimes four good ears. Plant liberally, as the kernels being much shriveled, seldom germinate so well as those of the regular type. Ready for use a little before the Stowell's Evergreen. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

EARLY CHAMPION. Ready for use at about the same time as Kendel's Early Giant. Ears as large or larger, ten or twelve-rowed; kernels deep, pure white, sweet and tender. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

EARLY CROSBY. New England Strain. This has been for years the most popular second-early strain in New England, and is largely grown elsewhere. Ears are intermediate in size between those of the first-early sorts and the Kendel's Early Giant, especially attractive and distinct, having rather small, almost square kernels packed so closely on the cob, that there is no space between the rows, as with other varieties; has always twelve or more rows and tip is completely covered. Not only an unusually attractive ear, but of a size preferred by many, and corn is superior quality. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

EARLY MAYFLOWER. A new extra early white variety with large well-filled ears; very sweet and tender. Ready for the table 4 or 5 days ahead of Red Cory. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

EARLY RED CORY. The most popular early variety. Ears 6 inches long; kernels broad, from reddish amber to nearly white; cobs mostly red. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

EARLY WHITE CORY. A selection from the Red Cory, both kernels and cob white; otherwise identical. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

FERRY'S EARLY EVERGREEN. Ears large, with sixteen to twenty rows. Equal in quality to the Stowell's Evergreen; one to two weeks earlier. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

HOWLING MOB. This corn originated in Ohio and it became so popular it was given the above name. The endeavor of the originator of this corn was to get as large an ear as possible, early in the season and of sweet flavor. This corn is of strong and vigorous growth, from 4½ to 5 ft. high and has abundant foliage and generally produces two ears to each stalk. Ears measure 7 to 9 inches in length with 12 or 14 rows. The corn is pearly white, usually covered with a heavy husk which extends well over the tip of the ears which affords a good protection from worms and birds. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

KENDEL'S EARLY GIANT. A second-early variety, following closely the small-eared, early kinds, but having ears of sufficient size to warrant its use for main-crop, usually twelve-rowed. Of good quality; productive. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

MAMMOTH WHITE CORY. Differs from the White Cory in having considerably larger ears, and in that they are twelve-rowed. Ripens nearly as early and is thought by some to be of better quality. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

MARBLEHEAD MAMMOTH. Ears of the largest size, having twelve to sixteen rows of kernels of more than average size, sweet and tender. Preferred by some to Evergreen for fodder and matures its crop earlier. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

METROPOLITAN. A new second-early sort, maturing closely to the preceding; rather distinct in growth, having especially strong stalks with numerous narrow, very dark green leaves. Ears 9 inches long, ten- or twelve-rowed. Well filled with large, deep kernels of excellent quality. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

PEEP-O-DAY. The earliest; productive. Stalks 3½ to 4½ feet high. Ears twelve-rowed, about 6 inches in length. Kernels white, sweet and of good size. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

POCAHONTAS. One of the earliest varieties, similar to White Cob Cory; ears are large, evenly and compactly filled with tender white kernels of very fine quality for a first early variety and runs very uniform as to type and productiveness. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

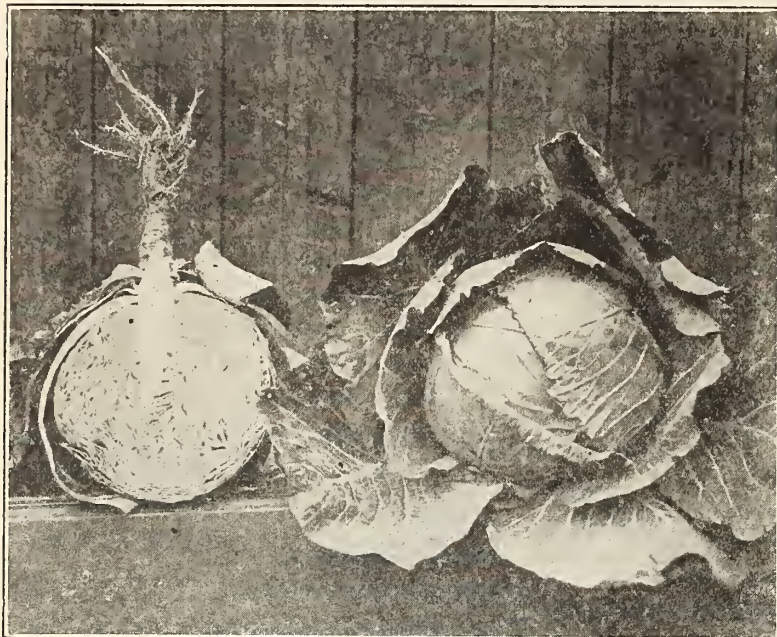
POTTER'S EXCELSIOR, or SQUANTUM. First named Potter's in Boston market, later named Squantum in Rhode Island. Ears of medium size. Matures soon after the second-early sorts. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

QUINCY MARKET. One of the sweetest early varieties. The ears closely resemble the Crosby, but are larger and mature earlier. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.

STOWELL'S EVERGREEN. The best known and most largely planted of all the varieties. The Stowell's Evergreen is hard to beat and for a long time to come many will have it in preference to any other sort. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. It is the standard late sort. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 25 cts. per lb.



Early Mayflower



Copenhagen Market Cabbage

CHINESE OR PE-TSAI CABBAGE

This is often called Celery Cabbage on the market, and when well grown resembles Cos Lettuce. It grows very rapidly and matures heads in less time than other varieties. The leaves, when young, are crimped and of a light green color. The plant, as it becomes older, grows more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white mid-ribs. It is of distinctive flavor, very mild and pleasant. It can be served as a salad, like Lettuce, or cooked like other Cabbage.

Chinese Cabbage should be sown in this latitude at the same time as turnips, after the first of July. Early plantings run quickly to seed in hot weather. Sow in drills 14 to 20 inches apart, and thin the seedlings two or three times, or, if grown for the market, start in boxes and transplant like late Cabbage.

Packet, 10 cents; 1/2 ounce, 25 cents; 1 ounce 40 cents; 1/4 pound, \$1.25; pound, \$4.00.

HONEY DEW MELON

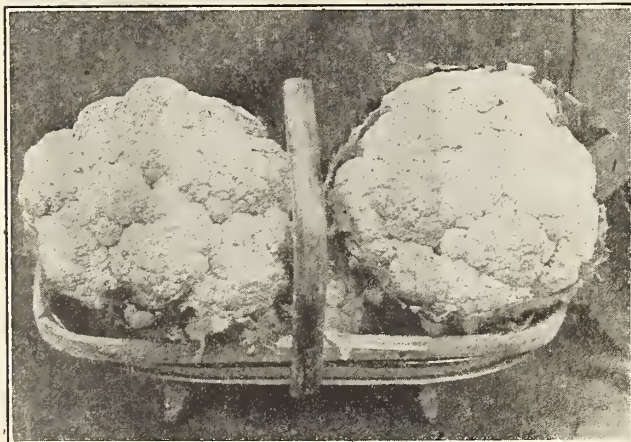
The original seed of this new melon was secured from a melon shipped from Africa to New York City. This seed was planted at Rocky Ford, Colorado, and crossed with the genuine, original "Rocky Ford" cantaloupe by pollenization. The following season this hybrid seed was again crossed with the Improved Hybrid Cassaba. The melon was named "Honey Dew" as it is as sweet as honey and has the mingling of several flavors—pineapple, banana and vanilla predominating.

The average size of the melon is six inches in diameter and seven to eight inches in length. The flesh is an emerald green, very thick, melting, and fine grained; can be eaten to the extreme rind. The seed cavity is very small, the rind impervious to water. The melon does not shrink in weight, is not easily bruised, and is a splendid shipper. It is later than Rocky Ford strains and is very prolific.

Pkt. 10 cts., oz. 25 cts., 1/4 lb. 75 cts., 1 lb. \$2.50.

SNOWBALL CAULIFLOWER

Snowball Cauliflower is the best for home use or market. The snow-white, oval heads are one of the most attractive delicious garden vegetables grown. Where possible, sow Cauliflower Seed where plants are to remain, but if necessary to transplant, do not reset them too deep. Pkt. 20 cts., 1/4 oz. \$1.25; 1/2 oz. \$2.25; oz. \$4.00.



Snowball Cauliflower (Selected Stock)

The Best Early Cabbage Copenhagen Market

As early as the Charleston Wakefield it fully meets the requirements of earliness expected of an Extra Early variety, while the heads are as large, or larger than the Danish Ballhead, averaging in weight about ten pounds. The type is remarkably well-fixed, the heads perfectly ball-shaped, all maturing at the same time and so uniform in size that, as the representative of the Danish grower said, they appear as though they were all cast in one mold. The plant is short-stemmed, the heads being produced only a little above the ground. The light green, rather small leaves are saucer-shaped and always tightly folded, permitting of closer planting than usual with other varieties, having a head of equal size. No other early variety will produce so great a weight per acre and we doubt if any of the later varieties will much surpass it in this respect. The Copenhagen Market has proven itself a valuable addition to the market-garden varieties. Pkt. 15 cts., 1/2 oz. 60 cts., oz. \$1.00, 2 ozs. \$1.00; 1/4 lb. \$3.50.

DANISH BALLHEAD CABBAGE

This is now the most popular main crop variety for market, due to its remarkable solidity, weight, uniformity in size, fine keeping qualities and attractive round head. It is especially valuable for shipping to distant markets and for late spring use. Though the heads are but of medium size, owing to their great weight the product of an acre exceeds in weight that of any other variety. We offer a strain of seed which has been proved by repeated trials to be unsurpassed. Pkt. 10 cts., 1/2 oz. 60 cts., oz. \$1.00, 2 ozs. \$1.90, 1/4 lb. \$3.50.

EARLY JERSEY WAKEFIELD CABBAGE

This cabbage though introduced years ago still holds its undisputed lead as the best extra early cabbage in cultivation and is more largely grown than any of the other first early varieties. It has a good sized head for so early a variety and its small outside leaves allow it to be closely planted. Always a sure crop. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.



Danish Ballhead Cabbage



EVERYBODY KNOWS ROSS' SEED GROWS



OUR SCARLET GLOBE RADISH

OUR SCARLET GLOBE RADISH is globular in form and is a handsome, rich, bright scarlet color, mild, crisp and tender, and one of our best selling radishes. It resists heat without becoming pithy, and is ready in twenty-five days. Should be used as a cold weather radish, as it will lose its shape during hot summer weather.

Our Scarlet Globe Radish should be planted in every home garden as well as for market. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., 1 lb. \$2.25.

CELERY, GIANT PASCAL

A well-known and popular greenleaved variety which developed from the Golden Self Blanching. Very solid and crisp, of the finest quality, stringless, tender, and of a peculiarly sweet, nutty flavor. A good blancher and a first class winter keeper. Our stock of this variety is unsurpassed. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.

JOHN BAER TOMATO

An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the



Scarlet Globe Radish

extra early sorts and are also most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the very earliest to ripen its first fruits and it continues to furnish marketable fruits much longer than other very early varieties. It is an invaluable sort for market gardener's use. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., 1 oz. 45 cts., $\frac{1}{4}$ lb. \$1.50.

HUTCHINSON CARROT

This Carrot is without exception the heaviest cropper which we list and is unsurpassed in quality. It is about the same length as the Danvers but from the fact that it holds its fullness well down to the point it will yield fully 20% more weight on the same acreage. See page 28. Pkt. 15 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, 1 lb. \$5.00.

DANVERS HALF LONG CARROT

A well known rich orange red variety, very smooth and handsome, producing extra heavy crops. An excellent market variety; crisp, sweet and tender. Although the roots are short, they produce as large a bulk as the longer field sorts and are more easily harvested. This variety has yielded 25 tons per acre. We have given this our special attention and are able to offer at this time as good strain of seed as is possible to obtain. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 75 cts., 1 lb. \$2.50.



Danvers Half Long Carrot

SYMME'S BLUE HUBBARD

This Squash was given the name Symmes in honor of Mr. S. S. Symmes, a well known market gardener, by whom it was introduced. It is a sport of the Hubbard. Until recently it did not come true, but at the present time the type and color are both well fixed. It is more productive than any other strain of Hubbard, thick meated, dry, fine grained and sweet. It is steel blue color, very thick meated and its eating quality is unsurpassed. The Blue Hubbard grows of even size which makes it easy to handle and market and it brings the highest price of any variety. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1.00, 1 lb. \$3.50.



Symmes Blue Hubbard Squash



GENERAL LIST OF VEGETABLE SEEDS

While we invite a comparison of our prices with those of any reliable dealer, we wish to lay much the greater emphasis on the fact that "QUALITY" is the paramount feature considered in what we have to offer.

All prices in this catalogue are based on the lowest market price at time catalogue goes to press but they are subject to market changes. This applies to both advance and decline.

ASPARAGUS

An ounce will sow about 60 feet of drill, and produces 200 or more plants.

To grow asparagus from seed, sow as early as ground can be worked. Make the soil rich and sow in drills one foot apart and an inch or more deep. If the bed has good care, the roots may as well be transplanted to the permanent bed early the following spring as to wait another year, as is generally done. The soil should be thoroughly and as deeply worked as possible and can hardly be made too rich. In the field, the rows should be from four to six feet apart, but in the garden where the cultivation is to be done by hand the rows may be as close as two feet apart. Make broad trenches 3 inches deep, and if the roots are well spread, the crown will be 6 inches below the level. Cover with but an inch of soil at time of setting, filling the trench gradually as the plants grow. The plants should have frequent cultivation and yearly heavy applications of manure or fertilizer. The third year from setting, two or three cuttings may be made; after that, all that are possible until time for early peas.

COLUMBIAN MAMMOTH WHITE. Large stalks; clear white until 3 or 4 inches high. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts.

PALMETTO. Early and productive. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts.

GIANT ARGENTEUIL. Popular in France on account of its large thick, green stalks, being a special favorite in the Paris markets. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts.

ASPARAGUS ROOTS

The easiest way to obtain an Asparagus bed, is to set out the roots. It takes 3 years to establish one from seed but with our large, two year roots a bearing bed may be had in 2 years.

We can furnish strong two-year old roots of the three varieties listed, 50 in a bunch, at the following prices: Per 50, 65 cts., postpaid. By express, per 100, 75 cts., per 1,000, \$7.00.

COLUMBIAN MAMMOTH WHITE

PALMETTO

GIANT ARGENTEUIL

ARTICHOKE

One ounce will produce about 500 plants

The Globe Artichoke is cultivated like asparagus for its flower heads which are used before they are fully developed. Plant the seed early in spring in rows twelve inches apart, covering one inch deep. Transplant the following spring to rows three to four feet apart and one foot apart in the rows. Upon the approach of winter the stems and leaves should be cut away and where the winters are severe the beds should be covered with leaves or dry litter to keep the crowns from freezing. To treat as an annual, sow the seed in hot-beds in February and transplant into moist, rich soil in May.

LARGE GREEN GLOBE. The best variety for general use. The heads are large, very thick and fleshy. Pkt. 20 cts., $\frac{1}{2}$ oz. 55 cts., oz. \$1.00.

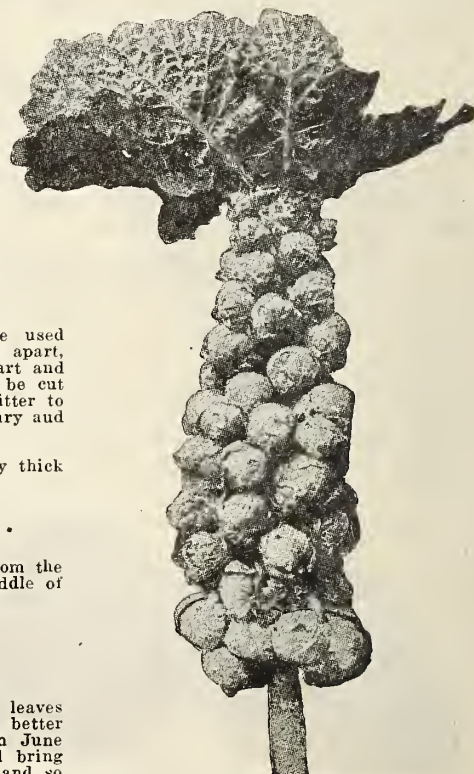
BRUSSELS SPROUTS

A very hardy plant of the cabbage family, growing from 2 to 3 feet high, producing from the sides of the stalk numerous small heads about 2 inches in diameter. Sow about the middle of May, and treat generally as directed for cabbage.

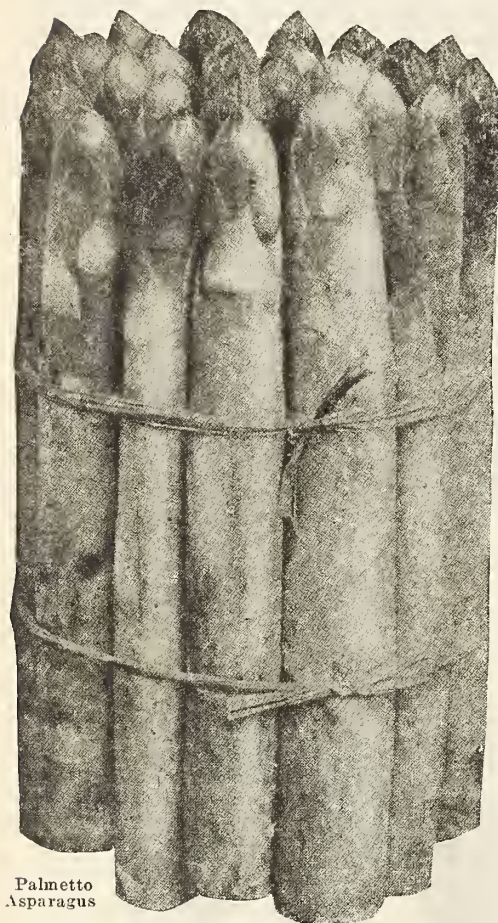
IMPROVED HALF-DWARF. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

BROCCOLI

St. Valentine Broccoli has a clear white head like a cauliflower, surrounded by heavy leaves which may be tied to further blanch the heads. It stands cold and wet well, and heat better than any cauliflower. Be sure that the plants have plenty of water. Seed started in June will make heads which will be in good condition all winter. Seed started earlier will bring heads in for summer. Remember that Broccoli takes longer to mature than Cauliflower and so allow two or three weeks more. Pkt. 15 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.30.



Brussels Sprouts



Palmetto
Asparagus



EVERYBODY KNOWS ROSS' SEED GROWS



Improved Golden Wax Beans

We send one pound or less postpaid; for larger quantities by parcel post postage must be sent. See page 2.

BEANS

2 lbs. will plant 100 feet of drill. 60 to 90 lbs. will plant an acre.

Beans succeed best in warm, light soil of at least average fertility. In this latitude it is not usually safe to plant much earlier than the middle of May. If planting is made earlier and is followed by especially wet or cold weather, the planter should not blame the seedsman if beans fail to germinate. Plant the dwarf varieties in drills 2 to 3 feet apart, about 2 inches deep, and thin plants 4 to 6 inches apart. Give frequent, shallow cultivation until time of blossoming.

DWARF WAX OR BUTTER BEANS

BLACK WAX, PROLIFIC. One of the best for a home garden, perfectly stringless and of excellent flavor. Pods are medium size, round and of a clear waxy white color. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts per lb.

CURRIE'S RUST-PROOF WAX. It has been claimed that this medium early bean is absolutely rust proof and we have found it as nearly rust proof as any wax-podded bean. The plants are very vigorous, hardy and productive. The pods are five to six inches long, nearly straight, broad and flat; color, golden yellow. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

DAVIS WHITE WAX. Vines of vigorous habit, fairly productive, not especially subject to blight or rust. Pods longer than those of most other varieties, always straight, flat, white, wax-like and attractive. If picked while young, the pods are tender and stringless, but, later, are hardly equal in quality to those of some less hardy sorts. Seeds white, kidney-shaped, excellent for baking. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

GOLDEN-EYED WAX. Next to Horticultural Wax in its freedom from rust, and superior to that in quality though not equal to most others in the list. Pods of good length, flat, straight, waxy yellow and attractive. Popular with market-gardeners. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

HODSON WAX. A new and distinct variety, about two weeks later than others, but surpassing most others in its combination of large, handsome pods, good quality and immunity from rust. It is also above the average in productiveness. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

IMPROVED GOLDEN WAX. An old, well-known and popular variety of excellent quality. Pods flat, long, golden yellow. One of the earliest and best dwarf wax varieties for the private garden. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

ROUND-POD KIDNEY WAX. Of unsurpassed quality. One of the best for the home garden and very desirable for market where round-podded varieties are popular. Pods are long, very white and wax-like; uniformly perfect in shape and vine is very productive. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts per lb.

SURE CROP STRINGLESS WAX BEANS. A new variety. One of the best to grow for the market. It somewhat resembles Currie's Rust Proof in plant, pod and seed, but is hardier, more rust proof and is perfectly stringless at all stages of development. Handsome, very long, golden yellow and semi-round pods, fleshy, tender, of the finest quality. An exceptionally vigorous and prolific variety. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

WARDWELL'S KIDNEY WAX. Vine of strong, vigorous growth, but of somewhat tender constitution, in favorable seasons remarkably productive. Pods large, long, nearly straight, broad, flat, meaty and of finest quality. Seed large, kidney-shaped, white, with purplish brown markings about the eye. Commands the highest price in market and especially desirable for the home garden. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

DWARF OR BUSH BEANS

Green-Podded Varieties

BOUNTIFUL. Vine unusually thrifty, rarely affected by blight, bears early, profusely and for a long time. Pods large, flat but thick and meaty, stringless and tender. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

BOSTON SMALL PEA. More largely used than any other variety for baking. Choice selected. $\frac{1}{2}$ lb. 15 cts., 1 lb. 25 cts., 2 lbs. 45 cts., 10 lbs. or over 20 cts. per lb.

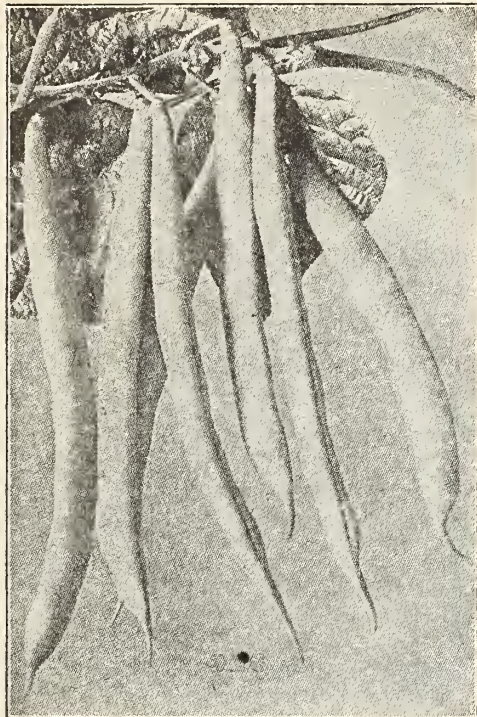
BURPEE'S GREEN POD STRINGLESS. A very desirable dwarf green podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, larger than those of Red Valentine, but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Seed of medium size and length, yellowish brown. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.



Wardwell's Kidney Wax Beans



We send one pound or less postpaid; for larger quantities by parcel post, postage must be sent. See page 2.



Prolific Black Wax Beans

DWARF LIMA BEANS

The dwarf lima class cannot be recommended too highly. The beans can be grown and gathered much more easily than the pole limas as the vines require no support. They can also be grown closer together than those equal in quality to pole limas and as a rule are earlier maturing.

Limas require a longer season for maturing than other garden beans. Do not plant till the ground is dry, weather warm and danger of frost is over. If possible select rich, light soil. Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half the other and plant four to six beans in a hill. Hoe often but only when the leaves are dry.

HENDERSON'S BUSH LIMA. A bush of the Sieva Lima; beans small but vine is productive and bears early. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

BURPEE'S BUSH LIMA A bush form of the Large Lima which it closely resembles and approaches in size. Very popular. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

BURPEE'S IMPROVED BUSH LIMA. A distinct strain. The earliest, largest and the best of all large Limas. This new strain differs from the popular Burpee's Bush Lima in bearing uniformly much larger pods, producing more beans, while both pods and beans are much larger and thicker. While the beans are as large as those of the Large Lima, the crop of the Improved is ready for gathering from eight to ten-days earlier. In quality, the beans are equal to any, being thin-skinned, juicy and of fine flavor. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

FORDHOOK BUSH LIMA. The Fordhook Bush Lima Bean is not a selection made by man from the Dreer's Bush Lima, but created by nature, a single sport found in the field of Dreer's or Challenger Pole Lima and has now become one of the leading varieties of Bush Lima Beans. The plant is of stiffly erect habit, the beans are much larger and of superior quality and even when full size are juicy and of fine flavor. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

DWARF OR BUSH BEANS—Continued

Green-Podded Varieties

EARLY RED VALENTINE. An old favorite. Vine hardy and productive; pods round, of medium length, thick, tender and of fine flavor. $\frac{1}{2}$ lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 32 cts. per lb.

EARLY YELLOW SIX WEEKS. The vines of this variety, known also as Long Yellow Six Weeks, are large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps. This sort is early maturing and a fine shipper. Seed medium sized, long, kidney shaped, light yellow with small brownish circle about the eye. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

FRENCH'S HORTICULTURAL. This is a bean of the horticultural type which has been grown quite extensively in some localities by the Market Gardeners for a number of years. The vines are compact and of upright growth; almost always sending out runners to a height of one and one-half to two feet but do not climb a pole and are not of sufficient length to affect the bean in any way. The pods when ready to use are a yellowish green splashed with a bright crimson. Very prolific. $\frac{1}{2}$ lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 32 cts. per lb.

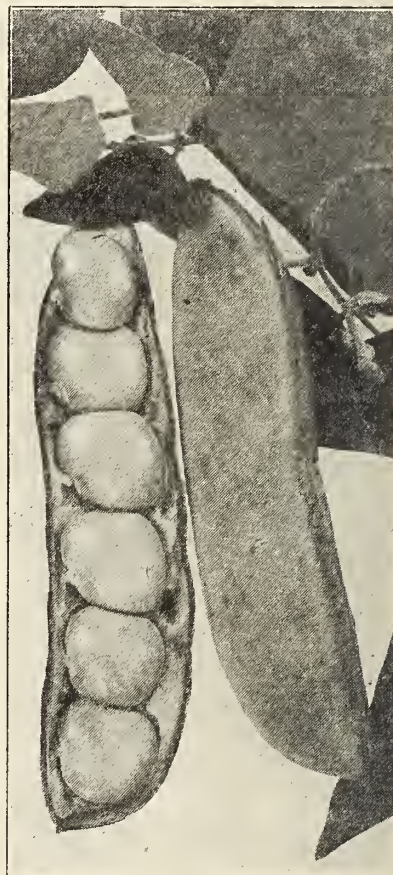
DWARF HORTICULTURAL. Pods thick, broad, of medium length, yellowish green splashed with red when at the stage of fitness for green shell beans and are then very attractive. Beans are large, oval, easily shelled and of fine quality. $\frac{1}{2}$ lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 32 cts. per lb.

GIANT STRINGLESS GREEN POD. Makes an excellent succession to Burpee's Stringless Green-Pod when planted at the same time. The plants are of strong growth; pods lightly curved, quite meaty, being broadly rounded and saddle-backed; brittle and stringless at all stages. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

GODDARD, or BOSTON FAVORITE. Vine very large, vigorous and productive. Pods long, larger than the Dwarf Horticultural, similar in color and marking. Beans large, kidney-shaped, of excellent quality. $\frac{1}{2}$ lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 32 cts. per lb.

IMPROVED YELLOW EYE. One of the best sorts for baking; extremely productive, and of superior quality. $\frac{1}{2}$ lb. 15 cts., 1 lb. 25 cts., 2 lbs. 45 cts., 10 lbs. or over 20 cts. per lb.

RED KIDNEY. Large red kidney-shaped beans of excellent quality. The old-fashioned baking bean. $\frac{1}{2}$ lb. 15 cts., 1 lb. 25 cts., 2 lbs. 45 cts., 10 lbs. or over 20 cts. per lb.



Fordhook Bush Lima Beans



EVERYBODY KNOWS ROSS' SEED GROWS



BEANS—POLE or RUNNING

2 lbs. will plant 100 to 150 hills.

Although pole beans require considerable care and labor, they are when properly grown usually of longer bearing period. Pole beans are more sensitive to wet and extremes of temperature than the dwarf varieties and should not be planted as early. Poles should be set in rows about 4 feet apart, preferably running north and south, allowing about 3 feet between the poles in the row. The safer way is to plant six to eight beans around each pole and thin to three or four plants. Beans should be about 2 inches below the surface and are more generally pressed into the soil, eye down, instead of dropped and covered, as they come up a little sooner planted in this way. Like the dwarf beans they require frequent shallow cultivation.



Pole Beans
Kentucky Wonder

GOLDEN CLUSTER WAX. Pods long, broad, thick and fleshy; borne in clusters, creamy white to golden yellow; of best quality. $\frac{1}{2}$ lb. 35 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

HARLEQUIN. Earlier, more productive, and with much longer and more attractive pods than the well known London Horticultural or Speckled Cranberry, also hardier and a more reliable cropper. The large oval beans are of the highest quality, either shelled or dry. The vines are vigorous, bearing pods that are six to seven inches long, striped or splashed with a deeper and more brilliant red than the London Horticultural. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

KENTUCKY WONDER, or OLD HOMESTEAD. Pods are borne in large clusters, are of unusual length, nearly round, silvery green; when young, crisp, entirely stringless, of fine texture and flavor. Vine bears early and is very productive. Used only as a string bean. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

"KENTUCKY WONDER WAX." This pole bean is quite similar to the very popular green podded Kentucky Wonder, except that the very long pods are a little broader, and of a waxy golden yellow. These are very attractive, fleshy, stringless and not surpassed in quality. The vine is remarkably vigorous and its earliness and hardness commend the variety as one well adapted for even northern latitudes. The seed even from the most matured crops is usually somewhat shrivelled. Like the green podded Kentucky Wonder, this is very productive and we believe it to be generally superior to any other wax podded pole bean. $\frac{1}{2}$ lb. 35 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

LONDON HORTICULTURAL, or SPECKLED CRANBERRY. Pods short, broad, yellowish green, streaked with bright red. Beans in general appearance identical with Dwarf Horticultural, of about the same size, more nearly round; of the best quality. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts per lb.

SCARLET RUNNER. Largely grown as an ornamental climber; its rapid growth and early production of dazzling scarlet flowers make it a favorite for covering screens, walls, etc. It is also of excellent edible qualities, but rarely grown for that purpose. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

SWEDISH or BROAD SWORD POLE BEAN

The pods are of light green color from eight to twelve inches in length and about one inch in width and retain their rich, tender, stringless qualities until nearly ripe. Pods contain eight to ten medium size, flat, white beans which are excellent for souping. Planted about June 1st, this bean comes into bearing about Aug. 1st, and will continue until frost. Vines have grown the past season to a height of 25 ft. and the yield of pods very heavy. Oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., $\frac{1}{2}$ lb. 60 cts., 1 lb. \$1.00.

POLE or RUNNING LIMA BEANS

2 lbs. will plant about 100 hills.

These, like the Dwarf Lima are tender and should not be planted in this latitude much before the first of June, and even then a liberal quantity of seed should be used to be more nearly certain of a uniform stand. Three plants, however, are all that should be allowed to grow in a hill.

CARPENTERIA. This is just the lima for the market gardener to grow for main crop. It is early and large, and enormously prolific, without much vine. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

KING OF THE GARDEN LIMA. Earlier than the Large Lima, and pods are longer and often contain five beans of the largest size. The vine is large and of remarkably vigorous growth and will produce larger pods and bear earlier if only two are allowed to grow to the pole. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

LARGE LIMA. The old standard variety. Pods are broad, thin and borne in clusters. The vine grows tall, is vigorous but slender. Later in bearing than the preceding varieties. The beans are large and of a greenish tinge which is considered an indication of superior quality. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.

BEAN POLES

We can supply bean poles for your garden—fine, straight, cedar poles, 7 to 9 feet long, delivered to express or freight depot, at 85 cts. per doz.



Harlequin Bean

SEIBERT'S EARLY LIMA. The earliest variety; vine vigorous and very productive and continues so from the first to the last of the season. While the pods are short and rarely contain more than four beans the total yield compares very favorably with other varieties. A desirable feature of this variety is the ease with which the pods are opened owing to the fact that they are very thin. $\frac{1}{2}$ lb. 25 cts., 1 lb. 45 cts., 2 lbs. 80 cts., 10 lbs. or over 35 cts. per lb.



BEET An ounce will sow about 100 feet of drill, 5 or 6 pounds required for an acre.

The beet thrives best in deep, rich, but rather light soil. Sow in drills about 15 inches apart and one inch deep. Make the soil firm over the seed. For early use, sow as soon as the ground can be worked; for fall use, in May; for winter, from the 20th of June to the middle of July, according to the variety. Thin plants to 4 or 5 inches apart. Give frequent shallow cultivation.

ROSS PERFECTION. A strain selected by us as the best early beet for the market gardener. Nearly as early as the Early Egyptian but the roots are much thicker and more regular in shape. By careful selection the coarse-fleshed and light colored specimens have been practically eliminated. The tops are even in growth and a little smaller than the Egyptian, making it an ideal beet for all uses. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.75.

EARLY EGYPTIAN. The earliest variety; roots flat; deep crimson; top small. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.

CROSBY'S EARLY EGYPTIAN. An improved form of the preceding; roots much thicker and more regular. Nearly as early and of better quality. The most popular early variety for market throughout New England, if not elsewhere, and is now being considerably used for last sowing. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

CROSBY'S EARLY EGYPTIAN EXTRA-SELECTED STRAIN. For several years we have given this especial attention and have largely succeeded in eliminating the light-colored, coarse fleshed specimens peculiar to the Egyptian. Roots are more uniform in shape and tops are more even in growth and a little smaller. We confidently recommend it to market gardeners as an unsurpassed strain. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.75.

BASTIAN'S EARLY. Roots too light-colored to be popular for market but of finest flavor. Very tender and sweet. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

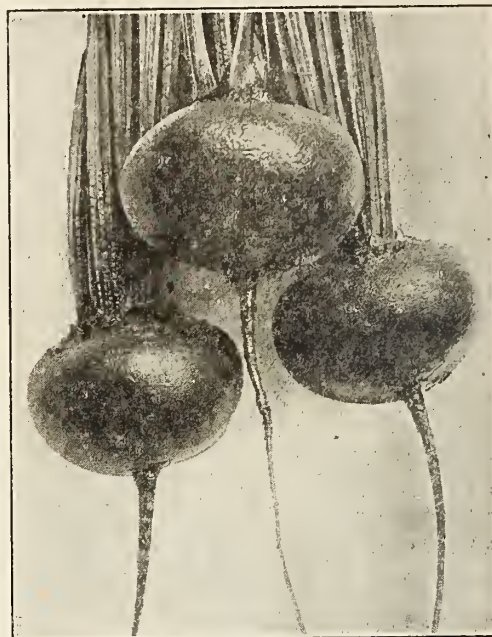
EARLY ECLIPSE. An early globe-shaped variety of good quality and deep color. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.

EDMAND'S BLOOD TURNIP. A standard variety used for both second-early and main crop. Of good quality and keeps well. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

DEWING'S BLOOD TURNIP. One of the leading main-crop varieties. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.

DETROIT DARK RED. A superior second-early and main-crop variety rapidly growing in favor for late planting. Tops uniformly small and grow upright so that the rows may be close together. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.

SWISS CHARD, or SILVER SEA KALE BEET. Used for greens only. Until recently but little used in this country, but for the last few years has rapidly increased in favor. Much superior to other beets for greens. Of very rank growth, plants should be thinned to about one foot apart. When the plants have attained full size, the stems and midribs are sometimes cooked and served like asparagus. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.



Selected Crosby's Egyptian

SUGAR BEETS and MANGEL-WURZELS FOR STOCK FEEDING

Roots of all kinds are highly valuable for stock feeding and are worth more general cultivation than they have had in the past. A liberal feeding of Mangels insures a large flow of milk and healthy condition of the animals. Fifteen or twenty tons per acre is not an unusual yield for any of the large growing varieties. They are easy to cultivate and can be raised almost wholly with horse culture and will respond readily to any kind of fertilizer. A yield of 20 tons per acre is equal to 2 tons of the best Timothy Hay or 65 bushels of corn, but they will produce more milk, and in addition to the feeding value found in protein and fat, you also get a large amount of water, which, to our mind, has a feeding value in any of our field crops.

GOLDEN TANKARD. It is one of the best stock beets grown. It has yellow flesh, a very distinct variety, being short with very little tap root and very easy to harvest. Top and neck very small; root ovoid, flesh yellow, zoned with white; an excellent sort. Price: Pkt. 10c., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

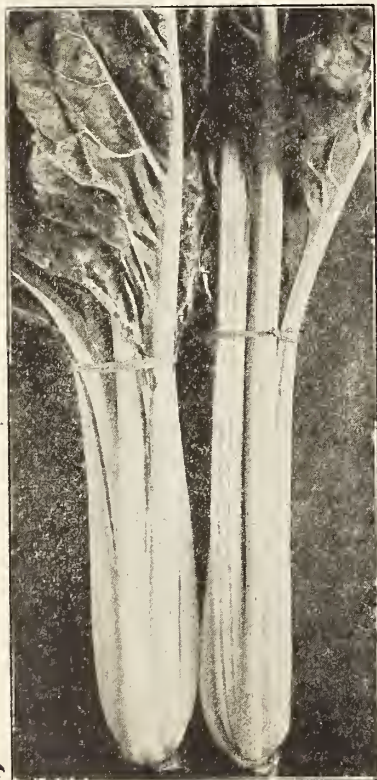
LANE'S SUGAR BEET. A standard variety for stock-feeding. Price: Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

MAMMOTH LONG RED. Mammoth size; skin light red, flesh white and rosc. Grows well out of ground. Price: Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

NORBITON GIANT LONG RED. Similar to the preceding; has smaller top and neck; flesh scarlet. Price: Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

ORANGE GLOBE. Top small, root medium-sized; skin deep orange-yellow, flesh white. Grows almost out of the ground; good for shallow ground; easy to harvest. Price: Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

RIVENHALL GIANT. This is one of the finest types of the yellow globe mangel in cultivation. The roots are immense size and exceptionally even in shape. The skin is an orange-yellow with a reddish-yellow base. The flesh is white, being firm and fine grain which renders it an excellent keeping variety. It grows fully three-fourths above ground with a very small tap root which makes it well adapted to light soil. Price: Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Swiss Chard



Golden Tankard
Mangel



EVERYBODY KNOWS ROSS' SEED GROWS



CABBAGE

An ounce will produce about 2,000 plants

Cabbage will thrive on any good garden soil but is more successfully grown on deep, strong loam, and new soil is much preferable, as on old land the roots are more liable to be affected by the disease called club-root. Especially should land be avoided upon which, within two years, cabbage, cauliflower, turnips or radishes have been grown.

For the earliest crop seed is usually sown in February or March in hotbeds with only moderate bottom heat, and the plants hardened by gradually exposing them to the night air and transplanted as early as the ground is in suitable condition.

Seed of the second-early, autumn and winter varieties, may be sown in the open ground. If a second crop is desired to follow closely the early crop, seed of some second-early sort should be sown as soon as ground can be worked. For later crops, successive sowings may be made, in this latitude, until about the middle of June, possibly some later, the time depending somewhat on the nature and condition of the soil, the season, and more on the variety, such kinds as All Seasons and Volga requiring considerably less time than the Danish Ballhead. Some growers prefer to sow the late varieties in hills where the crop is to be grown, thinning to one plant at first hoeing, but more often seed is sown in beds and transplanted.

EARLY JERSEY WAKEFIELD. The standard early variety. Head conical. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

CHARLESTON EARLY WAKEFIELD. Larger than the Jersey Wakefield, a few days later. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

EARLY SPRING. The earliest flat-headed variety, maturing soon after the Jersey Wakefield, but much larger. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

COPENHAGEN MARKET. The earliest large, round-headed cabbage yet introduced. A most excellent sort, both for home garden and market gardening trade. May be used as a medium or late cabbage by successive planting, as its keeping qualities are excellent. Pkt. 15 cts., 1/2 oz. 60 cts., oz. \$1.00, 2 ozs. \$1.90, 1/4 lb. \$3.50.

HENDERSON'S EARLY SUMMER. An early large-heading sort. Head flat or slightly conical, remains on stump longer without bursting than most early kinds. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

ALL SEASONS. For reliability in heading, not surpassed by any other variety, and few equal it in ability to stand the hot sun and dry weather and when mature to remain in the field so long without bursting. Heads as large as most of the later sorts, nearly round or somewhat flattened, solid and of finest quality. Extensively used for both second-early and main crop. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

EARLY WINNIGSTADT. Head large, conical, hard and keeps well. Plant very hardy and sure to head. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.



Copenhagen Market

WARREN STONE MASON. An improved strain of the old Stone Mason. Previous to the introduction of the Danish Ballhead the most popular variety in New England for main crop. Earlier and more nearly round than the old strain, of medium size, hard, solid and of excellent quality. Reliable and keeps well. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

DANISH BALLHEAD. The most popular and profitable late variety for market. Head of medium size, round, extremely hard, solid, heavier than any other variety, keeps remarkably well and stands shipment better than any other. Plant vigorous and very hardy with rather longer stem than most American varieties. Leaves large but few. Requires a longer season than the native varieties. Pkt. 10 cts., 1/2 oz. 60 cts., oz. \$1.00, 2 ozs. \$1.90, 1/4 lb. \$3.50.

AMERICAN IMPROVED SAVOY. The best of the Savoy type, which should be more largely grown. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

MAMMOTH ROCK RED. Head larger and more solid than Red Drumhead; reliable in heading. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

ENKHZUIZEN GLORY. This comparatively new cabbage has proved to be the best second-early variety yet introduced. Earlier than the All Seasons it is more solid than either that or Henderson's Early Summer, and is of better shape than either, being nearly round, approaching closely in this respect the Copenhagen Market. Pkt. 10 cts., 1/2 oz. 60 cts., oz. \$1.00, 2 ozs. \$1.90, 1/4 lb. \$3.50.

CAULIFLOWER

An ounce will produce about 2,000 plants.

In general, the Cauliflower requires about the same treatment as the cabbage; moist land is, however, more essential and heavier manuring and more frequent cultivation aid to a greater extent the full development of the plant. In this climate the plant heads well only in the cool fall months. Seed should therefore be sown as for late cabbage, from the middle of May to middle of June, the late varieties, however, requiring a little more time than most late cabbage.

EARLY SNOWBALL. The earliest and surest to head. Probably more largely used than all others combined. We offer an unsurpassed strain from one of the leading growers in Denmark. Pkt. 20 cts., 1/4 oz. \$1.25, 1/2 oz. \$2.25, oz. \$4.00.

DANISH GIANT, or DRY WEATHER. About ten days to two weeks later than the Snowball. Of dwarf growth, producing large, hard and snow white heads, fully protected by foliage. As indicated by the name, especially adapted for dry and hot climates. Pkt. 20 cts., 1/4 oz. \$1.25; 1/2 oz. \$2.25, oz. \$4.00.

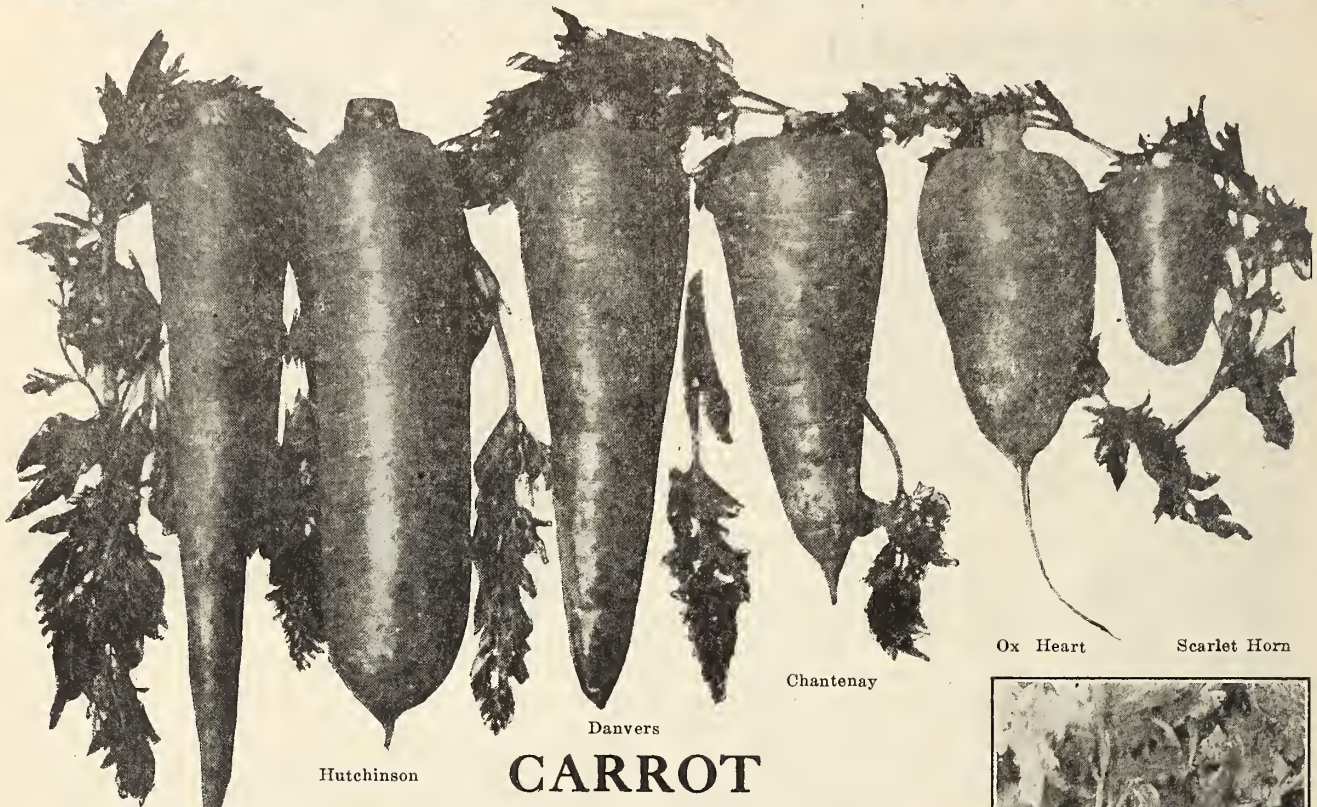


Danish Ballhead

FOTTLER'S BRUNS-WICK. An early, large drumhead which has been in New England one of the most popular second-early varieties. Head flat, solid, keeps well and of good quality. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.

PREMIUM FLAT DUTCH. An old standard late variety. Head large, flat and solid. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35; 1/4 lb. \$2.50.

SUREHEAD. Of the flat Dutch type, but head is thicker. Remarkable for its uniformity and certainty to head. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 2 ozs. \$1.35, 1/4 lb. \$2.50.



CARROT

An ounce will sow about 150 ft. of drill; 3 lbs. to the acre.

- The Carrot thrives best in a light, sandy soil, free from stones, well enriched, and deeply and thoroughly worked. Make the top surface fine and smooth by raking. Sow in drills 14 inches apart and half an inch deep and thin plants to 3 or 4 inches apart. Sow from the middle of April to the middle of June.
- EARLY SCARLET HORN.** A small early variety used by market gardeners for bunching. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.
- CHANTENAY.** A medium early variety, growing in popularity with market gardeners for bunching. Roots thick, uniformly half long, tapering slightly, stump rooted; deep orange-red. Flesh very tender. Tops of medium size with small neck. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.75.
- DANVERS HALF LONG.** The most popular variety for market on account of its attractive form and largely grown for stock. A little longer than the Chantenay, not as thick, smooth, deep orange. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.75. See page 21.
- GUERANDE, or OX HEART.** Roots very thick, four and one-half to five inches long, tapering but little and ending abruptly in a small tap root, tender and sweet while young. Flesh, bright orange. Used considerably for bunching earlier in the season. A desirable variety for growing on hard, clayey soils. Easily harvested. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.
- HUTCHINSON.** Unquestionably the finest strain of Carrot yet introduced. In color it is a little darker than the Danvers, grows from one to two inches longer and holds its fullness well down to the point. It will actually produce 20 per cent. more carrots than any other variety. Excellent for boxing. Pkt. 15 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.00.
- LONG ORANGE.** A standard variety grown mainly for stock but used to some extent for market. Of rich deep orange and fine quality. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 65c., lb. \$2.25.
- LARGE WHITE BELGIAN.** Grows one third out of ground. The portion above ground is green, that below white, large and rather coarse. Used only for stock. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.00.

CELERY

An ounce will produce from 3000 to 4000 plants

It requires about three months from sowing until the seedlings are ready to set in permanent place. For early setting, seed may be sown indoors in shallow boxes or in a cold frame, for later setting early in the open ground. Sow in fine soil, cover lightly and firm soil well with hoe or board. Keep soil moist, until seed germinates, nearly wet. When two or three inches high transplant so plants will be three inches apart each way. Shearing off the tops when plants are four inches high will make them more stocky. As soon as well rooted transplant to permanent location. In the field, plants are set in rows four to six feet apart with plants eight to twelve inches apart in the row. In the garden they are often set much closer. To blanch, draw earth about the plant from time to time, taking care that the tops of the center shoots are not covered.

- BOSTON MARKET.** An old variety of superior quality; at one time the most popular variety in New England. Of low, spreading habit, forms a number of secondary heads instead of a single large one. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.
- EASY BLANCHING.** A distinct sort. Very quick and easy to blanch, has exceptional keeping quality. The plant is of medium height, of great vigor, having thick rather than broad stalks, with shallow ribs. The stalks are very brittle and the flavor extremely spicy. Price, pkt. 20 cts., $\frac{1}{2}$ oz. 40 cts., 1 oz. 75 cts., $\frac{1}{4}$ lb. \$2.50.

- GIANT PASCAL.** A green-leaved variety which developed from the Golden Self-Blanching. Very solid and crisp, of the finest quality, stringless, tender and of a peculiarly sweet, nutty flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.
- GIANT GOLDEN HEART.** A selection from the Dwarf Golden Heart, large, solid and sweet, of a beautiful golden color. An excellent keeper. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.



Golden Self Blanching



EVERYBODY KNOWS ROSS' SEED GROWS



GOLDEN SELF-BLANCHING. The most popular variety for market, easily blanched, very attractive, of good quality, though not equal to some of the green celeries.

TRUE FRENCH-GROWN SEED. Pkt. 20 cts., 1/2 oz. 65 cts., oz. \$1.25, 2 ozs. \$2.25, 1/4 lb. \$4.00.

AMERICAN-GROWN SEED. Seed plants grown direct from French seed. Pkt. 10 cts., 1/2 oz. 35 cts., oz. 60 cts., 2 ozs. \$1.00, 1/4 lb. \$1.85.

CUCUMBER

An ounce will plant about 50 hills. 1 1/2 to 2 pounds to the acre.

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills 3 1/2 to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped bugs or other insects, dust frequently with air-slaked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

EARLY RUSSIAN. The earliest and hardest variety. Fruit 3 to 4 inches long. Vine vigorous and productive. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

EARLY CLUSTER. Early and productive. Fruit small, dark green, borne in pairs or clusters, largely near the root. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

EARLY FRAME, or SHORT GREEN. Fruit straight, smaller at the ends, bright green, a little later than the Early Cluster. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

IMPROVED WHITE SPINE. Deservedly the most popular type. Fruit uniformly large, straight and attractive; dark green, lighted at blossom end with a few white spines; flesh tender and of fine flavor. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts., lb. \$1.75.



Davis Perfect



Improved White Spine

CELERIAC, Turnip Rooted Celery

Sow seed and treat in first stage of growth as directed for celery. Set in rows 2 feet apart and 6 inches apart in the row. As the roots only are used, no banking is necessary. When roots have reached a size of 2 inches in diameter they are ready for use. These are boiled, sliced and eaten with vinegar. To keep through winter, roots should be packed in moist sand or earth.

LARGE SMOOTH PRAGUE. An improved sort with nearly round roots which have but few side roots. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., 1/4 lb. 80 cts.

CHEVRIL CURLED

A hardy annual, used for flavoring and garnishing. It is thought by some to exceed even parsley in beauty. Seed should be sown early in the spring and when plants are well-rooted, transplant to one foot apart. The leaves will be ready for use in seven to ten weeks from planting. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., 1/4 lb. 80 cts.

CHICORY

WITLOOF, or FRENCH ENDIVE. Esteemed as a salad plant. Spring-sown seeds produce Parsnip-like roots by November. Cut the leaves off 1 1/2 in. from neck, trench 1 1/2 in. apart, cover with soil 3 in. over crown; then place a 2 or 3 ft. layer of fresh manure which induces new growth of blanched leaves folded like Cos Lettuce, which are eaten raw as salad. Pkt. 10 cts., oz. 30 cts., 1/4 lb. 85 cts.

WHITE PLUME. The earliest and most easily blanched of all varieties, very showy, of good quality. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., 1/4 lb. \$1.75.

WINTER QUEEN. Of medium height, but stout, thick, and heavy, with a larger amount of heart than most other sorts. Of fine quality, more easily handled than the Giant Pascal, and an excellent keeper. One of the best for late winter use. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., 1/4 lb. \$1.75.

NICHOL'S MEDIUM GREEN. Fruit thicker than White Spine and full at both ends; light green, attractive and of fine quality. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

EMERALD. Fruit straight, symmetrical and entirely spineless. Color very dark green which it retains until ripe; of excellent quality, attractive and popular for shipping because it holds color so long. Vine productive; season medium to late. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

DAVIS PERFECT. Fruit long, slim, symmetrical, rich dark green, holds color until nearly ripe. Very attractive and of finest quality. One of the best for shipping. Vine especially vigorous and large. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts., lb. \$1.75.

LONG GREEN. An old standard variety, very popular for home gardens but little used for market. Fruit very long, slender, very firm and crisp, uniformly dark green; makes fine pickles and is the best of all when ripe for making sweet pickles. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts., lb. \$1.75.

CUMBERLAND. A distinct variety of the White Spine type. Vine vigorous, very productive, and continuous in bearing, much longer than most sorts. Fruit large, symmetrical, dark green, thickly set with small white spines; of best quality. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

JAPANESE CLIMBING. Vine very vigorous, with especially strong, grasping tendrils. Fruit of good size and quality. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts., lb. \$1.75.

EXTRA LONG, or EVERGREEN WHITE SPINE. A distinct and superior strain of this popular type. Fruit long, cylindrical, dark green, crisp and tender. Vine productive and comes into bearing soon after the Early White Spine. Popular with market-gardeners. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts., lb. \$1.75.

BOSTON PICKLING. A favorite for pickling. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 50 cts., lb. \$1.50.

CHIVES

CHIVES. Are a small, hardy perennial plant resembling onion in appearance and grow in clusters. They are grown for the leaves, which are produced freely from early spring and give a mild onion flavor to sauces, salads and soups. They can be easily grown in pots at a sunny window during the winter. Pkt. 15 cts., 1/2 oz. 40 cts., 1 oz. 75 cts.

Corn Salad, Fetticus, or Lamb's Lettuce

A hardy, rapid-growing plant, often used in winter as a substitute for lettuce and is sometimes cooked and used like spinach. It does not thrive in hot weather and if sown in the spring it should be very early and on extremely rich soil. It will then be ready for use in four to six weeks. It, however, succeeds best when sown in August or September. If sown in the former, it will be ready for use in the late fall. If left in the ground during winter, it should on the approach of cold weather, be protected with straw or litter. Pkt. 5 cts., oz. 30 cts., 2 ozs. 55 cts., 1/4 lb. \$1.00.



CRESS, CURLED OR PEPPER GRASS

A small pungent salad plant, much liked by some with lettuce. Like all salad plants it should be grown on rich ground. Seed may be sown early in the spring, but if desired through the summer repeated sowing will be necessary. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts.

WATER CRESS

WATER CRESS. Hardy plant which can be grown in a pond or along the banks of a running stream. Largely used as a garnish during the winter and early spring months. Pkt. 10 cts., 1/2 oz. 35 cts., 1 oz. 60 cts., 1/4 lb. \$2.00.

DANDELION

An ounce will sow 200 feet of drill. Two pounds to the acre.

Sow early in the spring in rich soil in drills 15 to 18 inches apart, cover lightly but make the earth firm: Thin to 5 inches apart in row. Cultivate frequently through the summer. Plants ready for cutting the following spring.

CULTIVATED, or FRENCH COMMON. A greatly improved strain of the common Dandelion. Pkt. 10 cts., 1/2 oz. 35 cts., oz. 60 cts., 1/4 lb. \$1.75.

IMPROVED THICK-LEAVED. Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 1/4 lb. \$2.00.

EGG PLANT

An ounce will produce about 1000 plants.

The Egg-plant, like all sub-tropical plants, requires, for both germination of seed and vigorous growth of plant, a high temperature. The seed is slow in germinating, and should be sown about the first of April. When the young plants show two rough leaves, transplant 3 to 4 inches apart, and when settled warm weather comes, set in rich, warm soil, 2 1/2 to 3 feet apart each way.

BLACK PEKIN. An early variety, nearly round, large, smooth, black and glossy. Plants prolific, leaves purplish black. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 55 cts.

NEW YORK IMPROVED. (Spineless.) The favorite variety. Fruit of largest size, oval, rich purple and finest quality. Plant large, spreading and very productive; foliage light green. Pkt. 10 cts., 1/2 oz. 35 cts., oz. 60 cts.

BLACK BEAUTY. A valuable variety, ready for use two weeks earlier than any other sort. The fruit is thick and of a rich purplish-black color. Pkt. 10 cts., 1/2 oz. 35 cts., oz. 60 cts.

ENDIVE

An ounce will sow 150 feet of drill, producing from 2000 to 2500 plants.

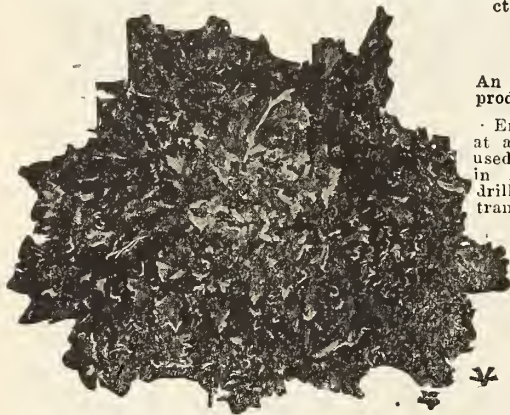
Endive, like lettuce, may be grown at any season, but is more generally used in the fall. For early use, sow in April, for later, until July, in drills 18 inches apart, or in beds for transplanting, plants should stand 10

to 12 in. apart in the row. When nearly full grown, tie outer leaves over center to blanch the heart, or blanch with boards as with celery.

MOSS CURLED. Of dense growth and finely curled. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., 1/4 lb. 75 cts., lb. \$2.50.

LARGE GREEN CURLED. Of larger growth, not so much curled as preceding. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., 1/4 lb. 75 cts., lb. \$2.50.

BATAVIAN BROAD LEAVED (Escarole.) A variety having broad, more or less twisted and waved bright green leaves with thick, nearly white mid-ribs. The inner leaves form a fairly solid, clustering head which blanches a beautiful deep creamy white and is crisp, tender, and of fine flavor. Unsurpassed for salads. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., 1/4 lb. 75 cts., lb. \$2.50.



Endive



New York Improved Egg Plant

HERBS, SWEET OR POT, AND MEDICINAL

	Pkt.		Pkt.
ANISE	\$0.10	FENNEL	\$0.10
CARAWAY .....	.10	SAGE .....	.10
CATNIP .....	.10	SUMMER SAVORY .....	.10
CORIANDER .....	.10	SWT. MARJORAM .....	.10
DILL .....	.10	THYME .....	.10

KALE OR BORECOLE

An Ounce will produce 2,000 Plants.

For early use, sow in May and transplant in June, and treat generally as for cabbage.

DWARF GREEN CURLED SCOTCH. One of the best plants grown for greens. This is a finely curled, low-growing variety, the leaves of which when properly cooked make very palatable greens. The plant is very hardy, the leaves are long and of an attractive bright green color. This sort is also very often used for garnishing. Pkt. 10 cts., oz. 30 cts., 1/4 lb. \$1.00.

KOHLRABI

An ounce will sow about 200 feet of drill.

This vegetable is intermediate between the cabbage and turnip. The edible part is an enlargement of the stem and should be used when half-grown, as when full grown it is tough and fibrous. Sow in drills 18 inches apart and thin plants to 6 or 8 inches apart.

EARLY WHITE VIENNA. Pkt. 10 cts., 1/2 oz. 20 cts., oz. 35 cts., 1/4 lb. \$1.00.

EARLY PURPLE VIENNA. Pkt. 10 cts., 1/2 oz. 20 cts., oz. 35 cts., 1/4 lb. \$1.00.



Kale, Dwarf Green Curled Scotch



EVERYBODY KNOWS ROSS' SEED GROWS



LEEK

Leeks require rich soil. Sow early in spring in deep drills, eighteen inches apart, but cover with but one-half inch of soil, thin plants to about eight inches apart and as they grow gradually fill the drill and draw the earth around them as with celery. Or if very tender and white leeks are desired, sow in bed and transplant when plants are six inches high into trenches six or eight inches deep and as they grow, gradually fill the trench and later draw the earth around them so that it will be two or three inches above the level.

AMERICAN BROAD FLAG. A popular variety, very large. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

GIANT MUSSELBURGH. A very hardy variety of extra-large size; the leaves are fan-shaped, of a dark green color, the edible stem is 6 to 8 inches long and 3 inches in diameter. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

LETTUCE

An ounce will produce from 3,000 to 4,000 plants.

Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as, while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.



Leek



Paris White Cos Lettuce

ROMAINE OR COS VARIETIES

These are distinct from the ordinary lettuce, and much liked on account of their tender, crisp leaves and delicious flavor. The leaves are long and narrow and need to be tied up when they soon form solid heads and bleach snow white.

EXPRESS COS. A fine dwarf early sort requiring no tying up. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

PARIS WHITE COS. One of the finest varieties for summer use. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

TRIANON COS. Similar to above but grows whiter and matures earlier. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.



May King

General Crop, Heading and Loose Leaved Varieties

BELMONT FORCING. This is a plain-leaved variety. It forms a compact head and is, like the Tennisball, almost certain to head, making it a desirable and profitable variety for forcing. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

BIG BOSTON. Resembles the White-seeded Tennisball but is much larger. Though the head is larger, having but few outer leaves, the variety is used to some extent for forcing. It heads very well in early spring outdoors, but does not head well in midsummer. It is, however, especially valuable for last planting, enduring cold weather conditions better than any other variety. Grown extensively in the south for shipping north in the winter. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

BLACK-SEEDED TENNISBALL. More extensively grown in New England than any other variety, both for first outdoor crop and for main crop, the medium sized heads being the size most liked by gardeners, while its compact form allows it to be grown more closely together than others. Leaves plain, thick, dark green; blanches to a rich creamy white inside. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

BLACK-SEEDED SIMPSON. Much larger than the preceding, but not so much curled. Forms a large, loose cluster of leaves rather than a head; leaves light yellowish green. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

BOSTON FINE CURLED. Beautifully curled, excellent for garnishing. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

CRISP AS ICE. A midsummer variety, surpassing all of this class in crispness, tenderness and fine flavor. Forms large solid heads, with leaves crimped and curled, those outside being variegated dark green and bronze, the inner portion blanching to a rich creamy yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

DEACON. One of the most popular summer varieties. Large solid heads of excellent quality and fine flavor and which remain in condition for use for a long time. Plant very compact with few outer leaves which are usually very smooth, thick and light green, the inner portion blanching to a beautiful cream-yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

EARLY CURLED SIMPSON. (White-seeded.) An old variety, with broad, often frilled, very curly light green leaves; sweet, tender, of fine flavor. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

EARLY CURLED SILESIA. An old, standard variety, very popular for home gardens. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.



LETTUCE—Continued

GRAND RAPIDS. Without doubt this is one of the easiest varieties of lettuce to grow. It forms no head but produces an abundant crop of pale green leaves, slightly but closely crumpled which have an excellent flavor. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

HANSON. An old variety of great merit. Forms a large, flat, cabbage-like head, very slow to run to seed. The outer leaves are bright green, with veins of lighter shade, inner leaves white, usually curved and twisted at the base. A very attractive variety of excellent quality and extensively grown for home use. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

MAY KING. A new, very hardy variety of foreign origin, which owing to its hardness, earliness and large size for a variety of this class, is coming rapidly into favor here, both for outdoor planting and for forcing. Forms compact heads, nearly, if not quite, as early as White-seeded Tennisball. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

NEW YORK MARKET. One of the largest varieties in cultivation. The heads are very solid with but little tendency to run to seed. It blanches itself naturally, is crisp, tender, and of excellent flavor, and always free from bitterness. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

PRIZE HEAD. A large, loose-leaved variety, which has been very popular for home use. Leaves very thin, crimped, bright green tinged with brownish red; sweet, tender and of good flavor, but not equal to Crisp as Ice. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

SALAMANDER. A large, compact head of good quality. Leaves light green, broad, thick, somewhat crumpled, closely overlapping so that inside they blanch to a creamy white. Withstands heat remarkably. One of the best varieties for midsummer. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

WHITE-SEEDED TENNISBALL, or BOSTON MARKET. An old and popular variety for forcing; heads small and compact. Not suitable for outdoor planting. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.



Black Seeded Tennisball

MUSKMELON

An ounce will plant about 50 hills. $\frac{1}{2}$ to 2 pounds are required for an acre.

The Muskmelon succeeds best in warm, rich soil. Plant when all danger of frost is past, in broad hills 4 to 5 feet apart, 10 or more seeds to each hill. Cover with one inch of soil and firm well with the hoe. If young plants are attacked by insects, dust them with air-slaked lime or ashes mixed with twice as much road dust. Use this frequently but sparingly, as a large quantity at one time is liable to injure the plants. When all danger from insects is past, thin to three plants to the hill.

MONTREAL NUTMEG. The fruits are of the largest size, often attaining a weight of 15 pounds. Shape nearly round, flattened at the ends. The flesh is about two inches thick, light green, and of a delicious flavor. This variety commands high prices in the Eastern markets during the Fall months. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

EMERALD GEM. Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

ROCKY FORD. More largely grown than any other of the small or basket melons. Oval, slightly ribbed, densely covered with fine netting; flesh green; thick and of rich flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

ADMIRAL TOGO. A new variety, similar in appearance to the Rocky Ford, having the same dense netting and of the same shape and size, but with orange flesh. The flesh is unusually thick and rich flavor, and the variety combines to a remarkable degree superior quality with the desired firmness for shipping. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

PAUL ROSE, or PETOSKY. The product of crossing the Osage and the Netted Gem. Resembles the latter, but is a little larger, and flesh is rich orange. Very sweet and high flavored. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

IMPROVED GREEN NUTMEG. Large, round, flattened at both ends. Ribbed and covered with coarse netting, flesh thick, and of fine flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

EXTRA-EARLY HACKENSACK. Above medium size, nearly round; flesh green, a little coarse but juicy, sweet and of good flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

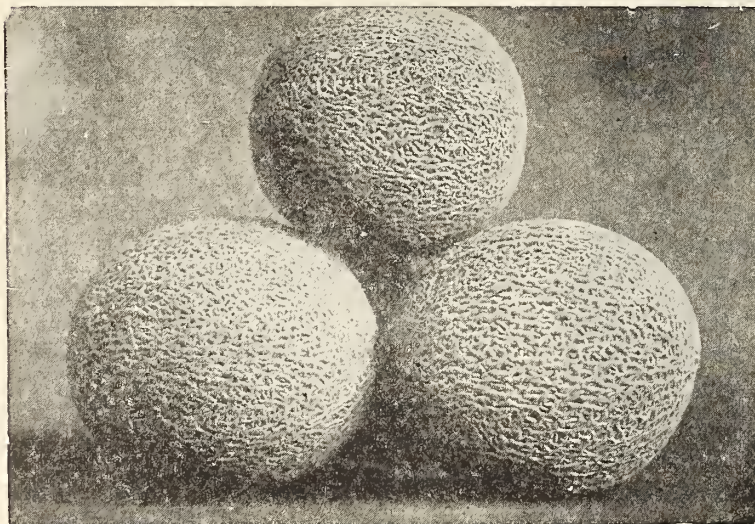
SURPRISE. Of medium size, oval, lightly ribbed, netted in patches; skin yellowish white; flesh, deep salmon, of good quality; vine hardy, productive and bears early. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

OSAGE, or IMPROVED MILLER'S CREAM. Of medium size, oval, dark green, shallow netting; flesh deep salmon, thick, very firm, sweet and of rich flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

BAY VIEW. Of largest size. Long, deeply ribbed, covered with coarse netting; flesh green, thick, and of finest flavor. Vine extremely hardy. Late but safe in maturing its fruit in this latitude. The quality of Bay View warrants its careful growth. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

MARTYNIA

The seed-pods when young and tender make excellent pickles, but should be gathered when less than half grown. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.



Rocky Ford



EVERYBODY KNOWS ROSS' SEED GROWS



WATERMELONS

An ounce will plant about 30 hills,
4 pounds to the acre.

The culture of the Watermelon is mainly the same as recommended for the Muskmelon, hills should, however, be about 10 feet apart.

COLE'S EARLY. Small but very early; of fine quality and sure to mature in any latitude where melons can be grown. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

HARRIS' EARLIEST. A new extra-early variety, large and of exceptionally fine quality. Slightly oval, mottled in stripes of light and dark green. Flesh bright red. One of the most desirable for planting in the North. Pkt. 5 cts., oz. 15 cts., 2 oz. 25 cts., $\frac{1}{4}$ lb. 50 cts.

PHINNEY'S EARLY. A standard early variety of medium size, oval, marbled light and dark green; flesh pink, sweet and crisp. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

PEERLESS, or ICE CREAM. Of medium size, oval, dark green; flesh scarlet, very sweet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

MOUNTAIN SWEET. An old favorite, early productive and of good quality. Fruit long, dark green; flesh scarlet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

SWEETHEART. Large, oval, very heavy; rind thin but firm mottled light and very light green; flesh bright red, tender, melting and sweet. Retains its good qualities for a long time after ripening. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

CUBAN QUEEN. Large, round or slightly oval, striped light and dark green, rind thin but firm; flesh bright red, solid, crisp and sweet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

KLECKLEY'S SWEET, or MONTE CRISTO. One of the sweetest, above medium size; dark green; rind thin; flesh bright red. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

HALBERT HONEY. A variety which rivals the Kleckley's Sweet in quality, while the vine is more productive. Fruit of medium size, blunt at both ends, deep glossy green; rind very thin; flesh crimson, entirely free from fiber, rich, sweet and melting. Unsurpassed for home use. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

TOM WATSON. Produces melons 18 to 24 inches long by 10 or 12 inches in diameter and weighing from 50 to 60 pounds; the dark green rind is tough but thin and easily withstands shipment. The deep red flesh extends to within three-quarters of an inch of the rind, is crisp, melting and of the finest flavor. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

CITRON. For preserving only. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

MUSTARD

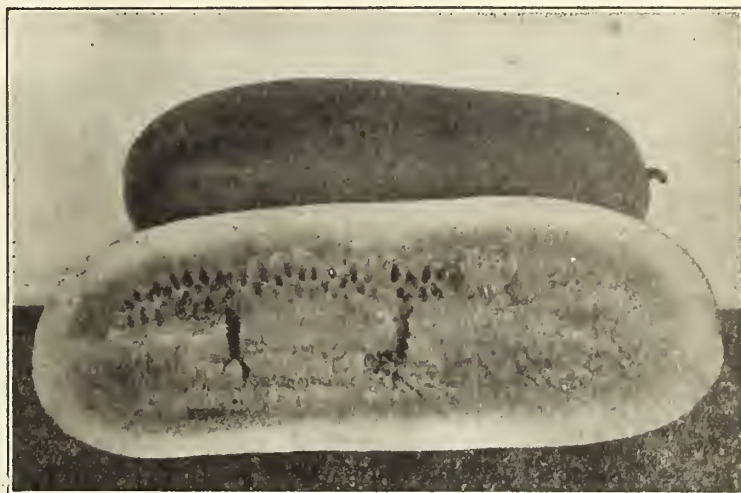
Used mainly for salads, but is sometimes boiled for greens. Sow as early as ground can be worked in drills eighteen inches apart and one-half inch deep. If desired throughout the season, successive sowings should be made about every three weeks.

WHITE, or YELLOW. The common variety. The seeds are often used to flavor pickles. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

SOUTHERN GIANT CURLED. Large, light green leaves, much crumpled at the edge. The best for salads. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.



Yellow Onion Sets



Kleckley's Sweet

MUSHROOMS

Cultural directions, to be of any value, would be too lengthy to give here, but we offer the very helpful little book "Mushroom Culture and Pure Culture Spawn," which not only gives the latest methods of culture of Mushrooms but also how best to prepare them for market, and several recipes for cooking them. 15 cts., postpaid.

LAMBERT'S PURE CULTURE SPAWN. This will produce Mushrooms of a specific variety, selected with reference to size, color and yield, and eliminates absolutely any danger of poisonous specimens. Standard bricks, weighing from $1\frac{1}{4}$ to $1\frac{1}{2}$ pounds, of the variety most largely cultivated. 25 cts. each. Postpaid, 35 cts. each, 5 bricks, by express, \$1.00.



Mushrooms

ONION SETS

Onion Sets we do not deliver free; purchaser pays transportation. Onion Sets weigh 1 lb. per quart. For Parcel Post Zone rates see page 2.

Onion Sets require rich soil and, with the exception of the Egyptian, early planting. Rows should be the same distance apart as suggested for onions grown from seed, and sets should be planted from 2 to 4 inches apart, and only lightly covered with earth, the top of set just below the surface with any growth it may have made above. Culture same as of onions from seed.

EITHER WHITE, or YELLOW. Qt. 30 cts., $\frac{1}{2}$ pk. \$1.00, pk. \$1.75.
EGYPTIAN, or PERENNIAL TREE. Ready in September. Qt. 30 cts., $\frac{1}{2}$ pk. \$1.00, pk. \$1.90.

OKRA OR GUMBO

The young seed pods are used in soups or stewed and served like asparagus. Much esteemed in the South. In the North requires an especially warm location and probably best results would be obtained by sowing seed in the hotbed. Set plants in rows two feet or more apart and about a foot apart in the row. The seeds are a long time in germinating.

DWARF GREEN. Early and productive; best for northern cultivation. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

PERKIN'S MAMMOTH LONG POD. A dwarf but enormously productive variety. Pods long, slender, deep green, and remain tender much longer than most sorts. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.



Yellow Globe Danvers Onions

ONION An ounce will sow about 100 feet of drill, 4 to 5 pounds to the acre.

The Onion usually thrives best on old, rich land, but can be profitably grown only on such as has been kept free from weeds. If stable manure is used it should be either well rotted or plowed into the soil the previous fall. As manure always contains more or less weeds, many large growers use nothing but commercial fertilizer. The soil should be worked until manure or fertilizer is thoroughly mixed with it and the surface made fine and even by raking. Sow as early as ground can be prepared, in rows 12 to 14 inches apart, one-half inch deep and make soil firm. Keep free from weeds, especially at first, for if the weeds once get ahead of the young plants it is almost useless to continue cultivation—the land would better be plowed and replanted with some other crop.

YELLOW GLOBE DANVERS. Of globular form, but differs from the Southport type in being slightly flattened at both top and bottom; ripens earlier and in unfavorable seasons is more nearly free from scallions. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., 2 ozs. 75 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50

SOUTHPORT YELLOW GLOBE. Bulbs nearly spherical, slightly elongated; does not mature quite so early as our Selected strain of Yellow Globe Danvers; a little more inclined to grow stiff-necked on some soils or in unfavorable seasons, but when well-grown brings the highest price, especially in New York markets. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., 2 ozs. 75 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

SOUTHPORT RED GLOBE. Identical in form with the preceding; rich deep red, above medium size; an excellent keeper and one of the most attractive of all. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., 2 ozs. 75 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

SOUTHPORT WHITE GLOBE. Of true globe shape. Later than White Portugal; keeps better and like all globular varieties a greater weight can be obtained on the same area. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.

WHITE PORTUGAL, or SILVERSKIN. An early white, flat variety, of medium size and mild flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.

EXTRA EARLY RED FLAT. The earliest red variety; of medium size. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts., 2 ozs. 80 cts., $\frac{1}{4}$ lb. \$1.50.

LARGE RED WETHERSFIELD. The standard red variety. Bulb large, flattened but thick; skin deep purplish-red. The best of all for light soils. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts., 2 ozs. 80 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.00.

PRIZETAKER. Of the largest size, form nearly globular; skin thin, light straw-color. Quite certain to bottom, but is later in maturing than any of the preceding, and though fine bulbs are often obtained from seed sown in the open ground in favorable locations, the largest and finest bulbs are grown from seed sown in a hotbed and the plants set in the open ground when about six inches high. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75.

YELLOW GLOBE DANVERS. Extra Selected. Eastern grown seed. A superior strain grown from carefully selected bulbs; of perfect form, unusually small neck, skin of rich, deep color; firm and heavy, and unsurpassed for shipping or storing. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.00.



Red Wethersfield Onion

POTATOES—50 New Varieties

can positively be grown from one Packet of Hybridized Potato Seeds. Every hill will be different. All colors, shapes, and sizes. May be worth a gold mine. Don't miss these rarest and most wonderful of Seeds. Packet, with Directions, 15 cts. 4 for 50c. 10 for \$1.00. Please order now.



GARDEN PEAS

All prices in this catalogue are based on the lowest market price at time catalogue goes to the press but they are subject to market changes. This applies to both advance and decline.

Of the early smooth varieties, 2 pounds will plant 150 feet of drill. Of the wrinkled sorts, 2 pounds will plant about 100 feet, 70 to 85 pounds will plant an acre.

Peas of the extra early, smooth class are the very first thing to be planted in the garden in the spring. The wrinkled sorts follow a little later, as they are not quite so hardy. The tall, late varieties need brush, wire or some other support. Though light, warm soil is desirable for the extra early varieties, peas generally produce a much larger crop on soil which is moderately heavy. By making the proper selection of varieties and planting frequently for succession one may have a full supply of the choicest green peas during the entire season.

Plant the early and dwarf varieties in drills $2\frac{1}{2}$ feet apart and 3 or 4 inches deep, but cover with but one inch of soil and fill trench gradually as plants grow. Plant the taller and later varieties in rows 3 to 4 feet apart and 5 to 6 inches deep covering as already suggested. The tall, late varieties may be planted in double rows thus using the supports which may be set between for both rows.

PEAS BY PARCEL POST. The prices given here are for Peas at our counter or by express or freight, at customer's expense. If these are wanted in quantities over 1 pound by Parcel Post remit extra for postage at zone rates. See page 2.

EXTRA EARLY DWARF VARIETIES

AMERICAN WONDER. The earliest of the dwarf wrinkled sorts, vigorous and productive, with dark, luxuriant foliage. Vines dwarf, 12 inches high, of compact growth. Pods $2\frac{1}{2}$ inches long, round, and crowded to the end with peas of excellent quality. This crowding often makes the peas appear almost square. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

LAXTONIAN. The Laxtonian Pea is a Telephone Pod on a Little Gem Vine. It is an early variety of superfine quality, and taken altogether is one of the best peas for the home gardener. It does not require bushing and for that reason can be planted close. Give this pea a trial and we are convinced that you will continue to plant it. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

LITTLE MARVEL. The Little Marvel Pea in size and shape all podded is very similar to the Nott's Excelsior but far more prolific. It is of exceptionally fine quality and enormously productive. The pods of this pea are



Thomas Laxton

3 to 4 in. long. It should be planted in every garden. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.
NOTT'S EXCELSIOR. The most popular of the dwarf varieties. Vine, larger and more productive than the American Wonder and bears earlier than Premium Gem. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

PREMIUM GEM. An improved strain of Little Gem. Vine not quite so tall, more even in growth and more productive. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.
SUTTON'S EXCELSIOR. The best of the dwarf varieties. The vine is of more vigorous growth than the Nott's Excelsior, a little taller, fully as productive and matures its crop nearly as early, while both pods and peas are decidedly larger. In quality, equal to any of the preceding, all of which compare favorably with the larger and later sorts. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

Extra Early Varieties of Taller Growth

ALASKA, or EARLIEST OF ALL. Very popular with market gardeners due to its uniformity in ripening. Nearly the whole crop can be gathered at one picking. Vine about $2\frac{1}{2}$ feet high; bears abundantly pods which, though small, are always well filled. $\frac{1}{2}$ lb. 15 cts., 1 lb. 25 cts., 2 lbs. 45 cts., 10 lbs. or over 20 cts. per lb.

GRADUS. A remarkable variety, combining earliness with peas of largest size and best quality. Matures soon after Nott's Excelsior. Vine resembles the Telephone but is only 3 to $3\frac{1}{2}$ feet high on rich land; productive. Pods 4 inches long, straight, slightly curved at end, light green, well filled. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

MARKET SURPRISE. A new variety offered last season for the first time. This is a smooth seeded sort and like all of this class may be planted very early. It is the earliest maturing variety to date, vines growing to a height of about 30 inches, bearing abundantly pods 3 to $3\frac{1}{4}$ inches long, well filled with peas of the finest quality. Every garden large or small should give this new sort a trial. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

THOMAS LAXTON. Vine of about the same height as the Gradus, of similar habits but much darker, hardier and more productive. More attractive and better filled with peas as large and equal in quality. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

ROSS' WORLD'S RECORD. A large, early, wrinkled pea with pods $3\frac{1}{2}$ to 4 inches long. The pods are well filled with peas of excellent quality. The vines are vigorous, growing about 36 to 40 inches high. Peas are ready to pick 4 or 5 days before Gradus. A variety which should be in every garden. $\frac{1}{2}$ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.



Improved Telephone



PEAS (Continued)

Second-Early Medium and Late Varieties

ADVANCEER. An old popular second-early sort. Vine about 2½ feet high, vigorous and productive. Pods of medium size, broad, well filled. Peas rather under medium size, but of finest quality. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

ADMIRAL DEWEY. A productive variety growing 3¼ feet high, pods dark green, larger than those of any other variety and well filled with large peas of unsurpassed quality. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

BLACK-EYED MARROWFAT. An old variety. Peas large but like all smooth peas much inferior in quality to the wrinkled sorts. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

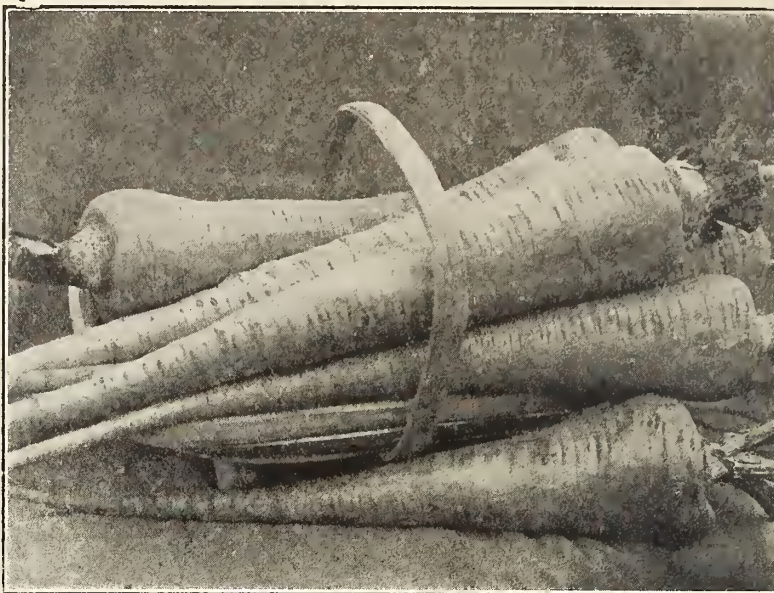
CHAMPION OF ENGLAND. Vine 4½ to 5 feet high, productive. Pods 2¾ to 3 inches long, broad, well filled. Peas of medium size, much shriveled, of unsurpassed quality. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

DWARF CHAMPION. A variety, claimed to be equal in quality to Champion of England. Both peas and pod are considerably larger and vine is only about 2 feet high. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

EVERBEARING. An excellent variety of branching habit. Pods about 3 inches long and well filled. Sweet and of fine flavor. Height, 3 ft. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

IMPROVED STRATAGEM. Vine 24 to 28 inches, of vigorous habit, with good culture, productive. Pods, 3¼ to 4 inches, broad, attractive, well-filled. Peas extra large and of finest quality. The tendency to sport has in a great measure been overcome in the improved strain which we offer. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

TELEPHONE. Extensively grown. Vine 3½ to 4 ft. On good soil, productive. Pods large. Peas above medium size, of best quality. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.



Hollow Crown Parsnip

YORKSHIRE HERO. Vine 26 to 30 inches, stout and branching, hardy and productive. Pods 3 to 3¼ inches long, broad, well-filled with peas of largest size, mealy, and of the richest flavor. ½ lb. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

PARSNIP

One ounce will sow 150 feet of drill, 6 pounds are required for an acre.

CULTURE.—The Parsnip thrives on any soil which is deep, mellow and moderately rich, but best on that which is rather light or sandy. Avoid the use of fresh manure, as, when used, roots are more inclined to be coarse, spongy and ill shaped. Seed germinates slowly, should be sown fairly early and immediately after ground is prepared—that is, before the soil has become dry. Sow in rows 18 inches apart, cover with one-half inch of soil and make latter firm by rolling or with back of hoe. Thin plants to three inches apart. Of each variety we offer a choice selected strain. Each, pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts., lb. \$2.25.

ARLINGTON LONG SMOOTH. Roots very long and smooth, with full crown; desirable for deep soils and, owing to the full crown, is less liable to rot if left in the ground through the winter than the Hollow Crown.

HOLLOW CROWN. Roots of medium length, thicker at the top or shoulder than the preceding; succeeds better on shallow or stiff soil, crown slightly depressed; does not, on this account, keep so well in the ground through the winter as the Arlington Long Smooth, but is more easily harvested and more extensively grown.

PARSLEY

One ounce will sow 100 feet of drill.

CULTURE.—Parsley thrives in rich, mellow soil and, owing to the very slow germination of seed, succeeds best when seed is sown as early in the spring as ground can be worked. Sow in drills, one-half inch deep, 14 to 16 inches apart, and when well up, thin plants to 8 inches. It may be cut when 3 or 4 inches high, and if soil is of the required richness, will afford several cuttings during the season. The Moss Curled is perhaps slightly more curled, while the Double Curled is claimed by some to be the more productive of leaves and to better withstand dry weather.

CHAMPION MOSS CURLED. This is a prize winning English variety, very distinct. It makes remarkably handsome, compact plants and its leaves have the appearance of finely curled moss. The plant is quite hardy and very slow to run to seed. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts.

DOUBLE CURLED. Plants compact, very curly and finely cut; bright green color. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts.



Parsley

Grow New Potatoes

from Hybridized "Seed Ball" Seeds. No product so interesting—none may be of such value. There's money in it, and fun galore. The result will be amazingly diversified—potatoes of all colors, shapes, and sizes, 50 or more distinct varieties. One may make your fortune. Order now. This may be your last chance. Packet, with directions 15c, 4 for 50c, 10 for \$1.00.



EVERYBODY KNOWS ROSS' SEED GROWS



PEPPERS

An ounce will produce from 1,500 to 2,000 plants.

The Pepper requires deep, rich, warm soil. Sow in hotbed or in the house early in April and transplant to open ground about the first of June. Set in rows 2½ feet apart and about 2 feet apart in the row. A liberal application of any fertilizer rich in nitrogen, made when plants are set in the open ground, or at first hoeing, will greatly assist the growth of the plants, increase the productiveness and improve the quality of the fruit.

BELL, or BULL NOSE. Large, bell-shaped, thick-fleshed and less pungent than some other sorts. Good for filling. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.75.

CHINESE GIANT. Mammoth fruits measuring 12 to 15 inches in circumference, also early and prolific. The flesh is thick, tender, mild and sweet. Unexcelled for use as salads. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

CORAL GEM BOUQUET. The best of the small sorts. Its small red pods are so thickly set as to give it the appearance of a bouquet. Very ornamental, as well as useful. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

GIANT CRIMSON. The first to mature of the extra-large varieties and surpassed by none in evenness of size and shape. The fruit averages heavier than any other large peppers as the flesh is unusually thick. When matured the color is deep crimson, flavor very mild. The plant grows upright, is vigorous, larger than the Chinese Giant, and more productive. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.



Quality Peppers



Bell Peppers

LONG RED CAYENNE. Fruit very slim, pointed, about 4 inches long, and when ripe, bright red. Extremely pungent. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

NEAPOLITAN. A great market variety on account of its earliness and productiveness. Grows about 3½ in. long and is remarkably sweet. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., 2 ozs. 90 cts., ¼ lb. \$1.75.

QUALITY. The originators of this pepper write the following: "It is a very attractive pepper, averaging 5½ inches in length and 3½ inches wide at the stem and 3¼ inches at the other end." It is very productive and is especially valuable for the market-gardener. The plant has a very heavy and dense foliage, protecting the peppers from the first early frosts. It is very sweet (almost as sweet as an apple). Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

RED CHILI. Used for making pepper-sauce. Pods bright red, slender, about 2 inches long and very pungent. Requires a long season; seed should be sown early in hotbed. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

RUBY KING. Large. Four to six inches long, symmetrical, very mild and sweet. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

SQUASH, or TOMATO-SHAPED. Fruit flat or tomato-shaped, and somewhat ribbed, flesh thick and slightly more pungent than other large sorts, early and sure to mature. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

SWEET MOUNTAIN. Fruit very large, often 8 inches long by 2 in. diameter. Flesh thick, sweet and mild. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

PUMPKIN

An ounce will plant 12 to 18 hills.

SMALL SUGAR. The popular variety in New England for pies; fine-grained and sweet. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

LARGE CHEESE, or KENTUCKY FIELD. Shape flat, skin of a rich cream color when ripe, flesh tender and of fine quality. Pkt. 5 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.

MAMMOTH TOURS. One of the largest in cultivation, good for feeding stock. Pkt. 5 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.

CONNECTICUT FIELD. The standard variety for feeding stock. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

GOLDEN OBLONG. Pumpkins from 15 to 20 inches long and 8 to 10 inches in diameter, skin rich golden yellow, thin, but tough. Flesh light golden yellow, of fine quality. Keeps nearly as well as the hard-shell squashes. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

QUAKER PIE. Fruits broad, pear-shaped to slightly oval; skin rich cream-buff; flesh fine grained and of rich flavor. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

JUMBO, or KING OF THE MAMMOTHS. The largest of all Pumpkins. Skin, orange-salmon; flesh bright yellow, very thick, fine grained and of excellent quality for pies. Pkt. 5 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.

WINTER LUXURY. Medium size, productive and an excellent keeper. Color of skin russet; fine netted. Pkt. 5 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.



Golden Oblong Pumpkins



Seed Potatoes Grown for Seed by Seed Growers in Aroostook County, Maine



The seed stock which we offer is grown for us by the most reliable growers in Aroostook County, Me., where all good seed stock comes from. The stock is all carefully selected, free from rot and scab, and carefully packed in burlap bags holding 100 lbs. and the price we quote includes sacks.

Potatoes will be shipped as soon in the Spring as the weather will permit of their being sent in ordinary cars without danger of freezing. Full carloads can be shipped at any time in heater cars.

Our trade on seed potatoes has increased about twenty times during the past few years which leads us to believe that the stock which we have been sending out has given entire satisfaction. There is no one thing that we sell in the line of seeds that is more important to change each season than seed potatoes. As it is impossible to grow just the right quantity of each variety to supply the demand we urgently request our customers to give us a first and possibly a second choice in case we should be out of varieties ordered, for after the season is well advanced it often happens we are sold out of a great many varieties.

AROOSTOOK PRIDE. A white, round variety of excellent quality, a heavy cropper with very few small tubers, fine for main crop. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

IRISH COBBLER

An early, white-skinned variety, very short, thick, inclining to round. This is yearly increasing in popularity for the early market. But few varieties, if any, combine earliness, size and production in as great a degree. The crop is ready for market about ten days earlier than the Early Rose; tubers are uniformly larger and in average production of large crops it is not equalled by any of the extra early varieties nor greatly surpassed in yield by any of the main crop varieties. The vine is very stocky and vigorous, not as liable to be affected with blight or to suffer by drought as most others. No other of the early varieties is as dependable as this, and is so certain to produce a crop. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

All prices in this catalogue are based on the lowest market price at time catalogue goes to the press but they are subject to market changes. This applies to both advance and decline.

CARMEN NO. 3. A handsome, round, white variety of the best quality; large, almost no small tubers. Claimed by the introducer to outyield any potato of its class. Vines large and vigorous, not troubled by bugs or blight as much as those of other sorts. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

GOLD COIN. Productive and of unsurpassed quality. Very uniform in size, never over-large, but few small tubers. Form oblong, rather broad and thick. Skin almost white with just enough of a light golden tinge to make it distinct from the white-skinned varieties, and having that rich russet appearance generally considered an indication of good quality. Vine of strong, vigorous growth, not easily affected with blight. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.



Irish Cobbler



EVERYBODY KNOWS ROSS' SEED GROWS



Seed Potatoes Grown for Seed by Seed Growers in Aroostook County, Maine

Quantities under 25 lbs. 8 cts. per lb., 50 lbs. at the 100 lb. rate.



Beauty of Hebron

NEW QUEEN. Similar to the Beauty of Hebron but considered by many as being a better cooker. Next to Cobbler, this is the best early kind for general crop. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

NORCROSS. A white-skinned variety which through the result of crossing two early varieties—Early Rose and Beauty of Hebron—matures at about the same time as the Green Mountain and is a worthy rival of that popular variety in productiveness. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

Hybridized Potato Seed

From the Seed Balls—Headquarters Stock

Millions never saw a Potato Seed Ball. Thousands have tried in vain to get the seed. Now is your opportunity. This unrivaled seed will produce an endless variety of new kinds. Your fortune may be in one of them. They are as easy to grow as tomatoes.

It is from these that ALL valuable new varieties of Potatoes are produced.

Growing new and distinct Seedling Potatoes from the Seed-Ball Seed is intensely interesting. They will be the greatest curiosity of your garden. This seed will positively produce innumerable new kinds, colors, shapes, sizes, and qualities. The product will astonish you. Some may be of immense value and bring you a golden harvest.



Photo of Potato Seed Balls—One-half Natural Size

BURPEE'S EXTRA EARLY. Of the finest quality and good size. Tuber, oblong, white or very pale brownish skin; few and shallow eyes. 25 lbs. \$1.35, 100 lbs. \$5.00, 1000 lbs. or more \$4.75 per 100 lbs.

BEAUTY OF HEBRON. One of the best mottled early varieties. Color, pink and white mottled, smooth skin, an old standard. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

EARLY ROSE. The standard early variety; color red; medium size, not inclined to grow large but a good seller in any market. 25 lbs. \$1.25, 100 lbs. \$4.50, 1000 lbs. or more \$4.25 per 100 lbs.

EARLY SIX WEEKS. An extra early variety, of good quality, cooking well as soon as it attains marketable size. In size, medium to large; color, light red or rose; form, round oblong, resembling the Ohio, and having the speck peculiar to the Ohio type. Keeps well. A good yielder. 25 lbs. \$1.35, 100 lbs. \$5.00, 1000 lbs. or more \$4.75 per 100 lbs.

GREEN MOUNTAIN. A white skinned variety of flat, oval form, smooth and attractive. Ripens slowly and is a good keeper. Quality excellent when well grown. This variety has been growing in popularity and is now the leader of this class, if not the most popular of all varieties for general crop. 25 lbs. \$1.15, 100 lbs. \$4.25, 1000 lbs. or more \$4.00 per 100 lbs.



Green Mountain

F. A. McDonald, Cavalier Co., No. Dak., Writes:

"The packet of Hybridized Potato Seeds brought splendid results. No two hills were alike. Some were white, some yellow, some red, etc. One plant bore 276 potatoes—some large as hen's eggs. Two remarkable freaks appeared. One ran like a cucumber vine, the other produced beautiful red potatoes—exactly the shape of a banana. I await future developments with great interest."

Worth Their Weight in Gold.

Mr. C. E. Flint of Washington writes: "Your Potato Seeds are worth their weight in gold. I had a grand assortment. I grew over 50 varieties from one packet. They are the finest I ever saw, and I expect to make a lot of money out of them."

Best Eating Potato, Immensely Productive
"I selected the earliest and best of 30 Seedlings grown from your seed, planted them alongside Early Ohio, Early Rose,

and Beauty of Hebron. They are now—July 12—fully ripe, while all the others are green. Are immensely productive—the best eating potato I have. I expect to have 200 bushels." Jessie Green, LaSalle Co., Ill.

From Wm. Johnson, Jackson Co., Ill.
"Your Potato Seeds brought remarkable results. Some hills are beautiful pink—large and long; some look like the old Peachblow; some large, white, purple eyes; some round, red, 30 to 50 in a hill; some pale blue; some white, flat, 3 inches long; two hills black potatoes, etc., etc. I never saw so many kinds, colors and shapes."

Seven Seedlings of Rare Value.
"I have a magnificent Seedling Potato grown from your Hybridized Seed, and have raised over 400 bushels. A prominent seedsman wants to introduce them and is trying to buy me out. I have six other seedlings that are more than good." E. A. Goodspeed, Onon. Co., N. Y.



RADISH

An ounce will sow 100 feet of drill.

Radishes are now grown the entire year, and may be sown when desired in hotbeds with moderate heat, either in rows 6 inches apart or broadcast. Soil should be light and rich, preferably new soil and fine rotted turf and commercial fertilizer. Seed may be sown outside very early, as soon as ground can be worked, in rows 6 to 12 inches apart, as desired, and one-half inch deep. For our own use, we prefer that plants shall be thick, commencing to use roots when twice the size of a large pea and only thinning when plants are so crowded as to prevent the formation of roots of a size suitable for use. Grown in this way and used from the size noted to that of a small marble, roots are tender and crisp and never have the thick skin, so generally a feature of those found in our markets. If desired for some time, seed should be sown at intervals of two to three weeks. As with the hotbed, soil should be light and rich, if possible, that which has recently been in grass. Avoid the use of both fresh manure and soil on which either radishes, turnips or cabbage were grown the previous year. Commercial fertilizers are much preferable and especially is nitrate of soda valuable in stimulating rapid growth, without which radishes are tough and stringy.

Prices on all varieties except where noted, pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.

CRIMSON GIANT. An early but large, round or slightly globular radish adapted for either forcing or outdoor cultivation. While it grows much larger than other forcing varieties it does not become pithy under glass, nor outdoors even when it is twice as large and older. Beautiful crimson-carmine, attractive and of fine quality.

CHINESE ROSE WINTER. A popular winter variety, roots cylindrical, slightly larger at the bottom, terminating abruptly. Grows about one-half inch above ground. Color of upper part scarlet, shading to rose in lower portion. 6 to 8 inches long.

EARLY SCARLET TURNIP. A small, round variety, with small tops; quick grower. Popular for forcing and outdoors. Deep scarlet.

EARLY SCARLET TURNIP, WHITE-TIPPED. Root nearly round, slightly flattened at bottom, bright scarlet with tip of clear white, early and attractive; suitable for forcing and outside planting.

EARLY LONG SCARLET, SHORT-TOP. Once the most popular radish, but has been largely displaced by the round varieties. 6 to 8 inches long, ready to pull in twenty-five to thirty days from sowing.

EARLY WHITE GIANT STUTTGART. Root large, clear white, often 4 inches in diameter, does not become pithy until very late. Those not used for summer radish can be stored for winter use. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.



Radish, White Icicle

FRENCH BREAKFAST. A stump-rooted radish, about 3 inches long. Bright scarlet, tipped white. An old favorite for home garden.

LONG BLACK SPANISH WINTER. One of the hardest and best for winter use.

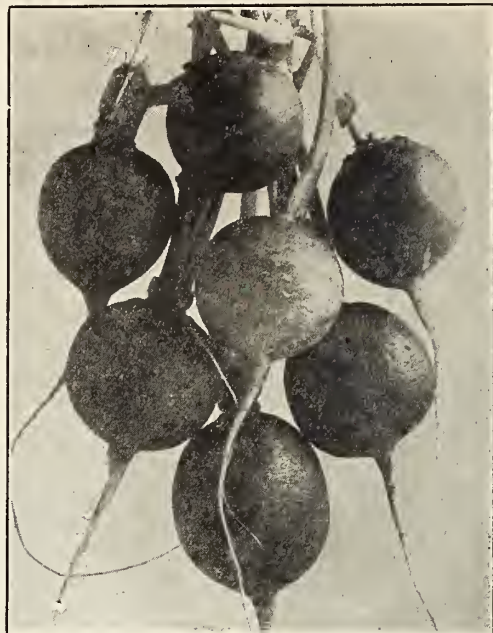
NON PLUS ULTRA, or DEEP SCARLET FORCING. One of the earliest; tops very small, especially suited for forcing. Color deep rich red, form globular.

ROUND BLACK SPANISH. White flesh with black skin.

SCARLET GLOBE. Root globular, or slightly olive-shaped. Brilliant red, which it holds long after pulling. Though top is somewhat larger than that of some forcing varieties, it is more largely used for forcing than any other because less liable to be pithy and is also for this reason the popular variety with market-gardeners for outdoor planting. We offer a proved and unsurpassed stock.

WHITE ICICLE. The earliest, pure white, long, summer radish of most excellent quality. Roots when matured are 5 to 6 inches long by about $\frac{1}{2}$ inch in diameter. One of the best outdoor summer radishes.

WHITE STRASBURG. A fine summer variety, growing about 4 inches long and 2 inches thick. Pure white.



Radish, Scarlet Globe

SALSIFY OR VEGETABLE OYSTER

An ounce will sow 50 feet of drill.

Sow early and deeper than parsnip, otherwise culture is the same and like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate rapidly after growth commences.

MAMMOTH SANDWICH ISLAND.

Larger, of stronger growth, and less liable to grow spongy than the old Long White. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 90 cts.

SPINACH

An ounce will sow 50 feet of drill, 14 to 16 pounds to the acre.

Spinach thrives only on rich land—the richer the better. For earliest use sow in August or September, in drills 12 to 14 inches apart, covering seed one inch. Plants should stand 2 inches or more apart. Protect with a light covering of leaves or straw, which should be removed at first signs of a new growth in

spring. For later or early summer use, sow as early as ground can be worked in the spring. The entire crop should be cut before hot weather, as after the leaves become tough they are stringy and of poor flavor. All at uniform prices unless otherwise noted. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

ROUND THICK-LEAVED. Leaves, large, thick, fleshy and slightly crumpled. Extensively grown and used for both spring and fall sowing.

EARLY GIANT THICK-LEAVED. Leaves very large and thick, deep green, attaining a size suitable for use earlier than the preceding and plant grows to a larger size before running to seed.



Early Giant Thick-Leaved Spinach



SPINACH—Continued

LONG STANDING. A variety which matures early and remains in condition for use longer than most others. Leaves smooth, rich dark green.

VICTORIA. Leaves large, thick, very dark green, slightly curled in the center. A little later than Long Standing, but surpasses it in the desirable feature of remaining in condition for use for a long time. Especially desirable for spring sowing.

SAVOY-LEAVED, or BLOOMSDALE. The earliest variety and used almost entirely for fall sowing, as it runs quickly to seed in warm weather. Leaves of medium size, dark green, pointed and crimped.

LONG SEASON. A new variety claimed to surpass all others in its ability to withstand hot weather without running to seed. Leaves very dark green, much crumpled, thick, tender and succulent.

NEW ZEALAND. This is a plant of a different genus, entirely distinct from the common Spinach. It makes a much larger plant, thrives during hot weather, grows on all soil, rich or poor, and may be cut nearly all summer, new shoots growing when others are cut. As it takes a long time for the seed to germinate, it is preferable to sow in heat and transplant as plants will then reach a size from which the shoots can be cut much earlier than if sown in the open ground, but, as the plant is hardy or half-hardy, and it requires much less care, seed is probably more often sown outdoors. Plants should stand 3 feet apart each way. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.



Squash Green Hubbard

SQUASH

An ounce of small seeded varieties will plant 25 to 30 hills; of the larger-seeded varieties, 12 to 15 hills.

The Squash is very tender and should not be planted until all danger of frost and cold nights are passed. It thrives best in warm soil which can hardly be made too rich; manure should be worked well into the soil over the entire area, and hills should have a liberal quantity of that which is well rotted. To avoid borers it is more or less the custom to plant as late as possible and is often done as late as the middle of June; in such case, an application of commercial fertilizer or nitrate of soda greatly hastens the first growth. The early bush varieties are generally planted in hills about 5 feet apart, and the running varieties about 10. Thin to three plants to the hill.

BAY STATE. Similar in shape to the Essex Hybrid, shell slate-colored and harder, and flesh is drier than of that variety. Very solid and of fine flavor. Pkt. 10 cts., oz. 25 cts., ¼ lb. 60 cts., lb. \$2.25.



Squash Delicious

BLUE HUBBARD. The Symmes Blue Hubbard is an entirely distinct variety, resembling the Warty Hubbard in shape. It is a pale light-blue color, very thick meat, dry and very sweet, its eating qualities cannot be surpassed. The Blue Hubbard is an exceptional heavy cropper, producing an extraordinary number of squashes, which, though not of the largest, are of even size, thus making it very easy to handle and market. It has excellent qualities, keeping with proper storage much longer than the Delicious. See page 21. Pkt. 10 cts., oz. 25 cts., ¼ lb. 90 cts., lb. \$3.00.

BOSTON MARROW. This grows larger than either the Prolific or Orange Marrow, but is not of so deep color. Skin, thin, yellow, with pinkish tint. Desirable for pies, not so dry as the Hubbard. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

CHICAGO, or WARTED HUBBARD. A selection of the Hubbard, with thickly warted shell. Equal in quality to that and generally considered to be of more attractive appearance. Of this also we offer a carefully selected strain unsurpassed by any we have ever seen. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

DELICIOUS. A fall and winter variety. Color, usually dark green but sometimes lighter in color and mottled; shell, moderately hard but very thin; flesh, thick, very fine grained, sweet and of finest flavor. Even when not quite mature is in condition for use and of good flavor. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

EARLY SUMMER CROOKNECK. For early planting the Crookneck type is used in New England to almost the exclusion of any other. This, while much smaller than the Mammoth Crookneck, is yet largely grown, many considering it of better flavor. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

ESSEX HYBRID. A cross of the Hubbard and Old Turban, partaking somewhat of the features of both. Like the Hubbard, it is hard-shelled. In color it is like the Turban, but greatly improved in form. Flesh, thick, solid and of good quality. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

FAXON. A very desirable variety for the home garden, very productive, of medium size, (five or six pounds), fine grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

GOLDEN HUBBARD. A distinct sort, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and a rich orange-red instead of the dark olive-green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine grained and dry. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER. MASS.



SQUASH—Continued

GOLDEN BRONZE. A cross of the Bay State and Boston Marrow. In form the same as the last-named, with stem and blossom end precisely like that variety; also, having the peculiar wrinkled appearance of the skin like the Boston Marrow. Very uniform in size, and weighs about nine pounds. Skin dark grayish green with bronze on upper surface when ripe. Flesh bright yellow, fine grained, very sweet and of fine flavor. Matures early but keeps well, and the vine is very productive. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

HUBBARD. A well-known and favorite winter variety, more largely grown than any other. We offer a choice strain, considered by some of our customers to be superior to the popular Chicago Hubbard. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.00

ITALIAN VEGETABLE MARROW. Vines of bush habit, producing large, much elongated fruits. Dark green at first but becoming marbled with yellow as they mature. The young fruits when fried in oil constitute a vegetable delicacy very popular. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

MAMMOTH SUMMER CROOKNECK. Vine larger and of more vigorous growth than the Summer Crookneck and fruit is twice as large, and deeper colored. Its large size and attractive appearance have made it popular with market-gardeners. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.00.

MAMMOTH CHILL. The largest variety, attaining under high cultivation an enormous size. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

MAMMOTH WHITE BUSH SCALLOP. An improvement on the old variety; larger, pure white and superior in quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

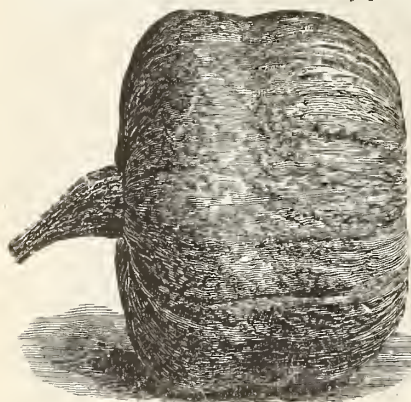
ORANGE MARROW. An early variety, much like the Prolific Marrow in color and pitting, but is more nearly round, later, much thicker-meated, and of better quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

PROLIFIC MARROW (Dunlap's.) The earliest fall variety, from a week to ten days earlier than any other Marrow. Color, deep orange; skin considerably pitted. Not so thick-meated as the Orange Marrow, not quite equal in quality, but especially desirable on account of its earliness and also because it is very prolific. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

THE WARREN. Has a shell generally harder and thicker than the Essex Hybrid and the color is a deeper and richer orange while the quality is decidedly better. The Warren is now grown very extensively by market-gardeners. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.



Golden Bronze



Essex Hybrid

TOMATO

An ounce will produce about 2,000 plants.

ACME. Vine hardy and productive. Fruit in clusters of four or five, round, smooth and of good size; flesh, solid and of excellent flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

BEAUTY. Vines large, vigorous and heavy bearers; fruit, large, uniform in size, very smooth, and excellent flavor; color, purplish pink. The best purple sort. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

BONNY BEST. This tomato has been tested and found eight to ten days earlier than the Chalk's Early Jewel and ripens about with the Earliana. Very strong grower and the fruit is uniform and smooth; ripens evenly all over, excellent shipper. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

CHALK'S EARLY JEWEL. A second or medium early sort. Later than Earliana. Vines vigorous and productive. Fruit solid and without hard core. Color, bright scarlet. A sort having great merit. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

COMET. Fruit medium size, scarlet. The heaviest yielder of the green-house sorts. Pkt. 15 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

DWARF CHAMPION. Sometimes sold as the "Tree Tomato." A second early, purplish pink variety, especially desirable where garden space is limited. Vine about two feet high, vigorous, upright and compact growing. Fruits, medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

DWARF STONE. Vine dwarf but vigorous and productive. While maturing with the later sorts the bright red fruits are of good color, exceedingly smooth and very solid. We consider this the best of the large fruited, dwarf tomatoes. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

EARLY DETROIT. This is considered the largest and best of the purple varieties. Vine is vigorous and very productive; fruits are purplish pink, smooth, uniform in size and are nearly globe shape. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

GOLDEN QUEEN. A very attractive yellow variety. Fruit large, smooth, solid and we think of richer flavor than any of the standard varieties. Should be more largely grown for home use. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

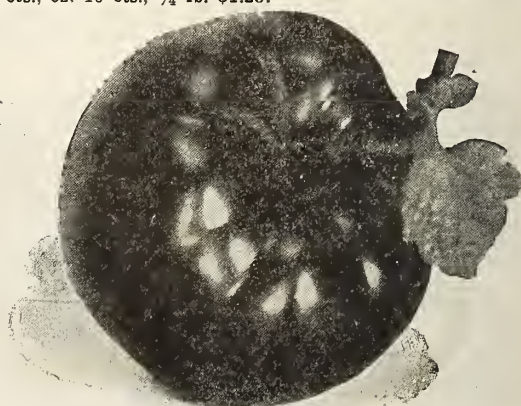
IMPERIAL. Fruit large and very attractive, resembling the Beauty; is not quite so large, but ripens a little earlier, is always smooth and not surpassed in quality. Vine vigorous and remarkably productive. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

JUNE PINK. An extra early, purplish pink tomato, similar to the popular scarlet fruited Earliana in growth of vine, shape and size of fruits and time of maturing. This is a variety of exceptional value to market-gardeners who want an early, purplish pink tomato, either for home market or to ship; also desirable for planting under glass. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25.

POTATOES—50 New Varieties

can positively be grown from one Packet of Hybridized Potato Seeds. Every hill will be different. All colors, shapes, and sizes. May be worth a gold mine. Don't miss these rarest and most wonderful of Seeds. Packet, with Directions, 15 cts., 4 for 50c, 10 for \$1.00. Please order now.

All prices in this catalogue are based on the lowest market price at time catalogue goes to the press but they are subject to market changes. This applies to both advance and decline.



Dwarf Stone



EVERYBODY KNOWS ROSS' SEED GROWS



Tomato Beauty

TOMATO—Continued

An ounce will produce about 2,000 plants

The Tomato succeeds best in light, warm soil, of medium fertility. Strong and rich soil tends to an overgrowth of vine, and if such is the only available soil, the vines would better be trained to stakes and pruned. And this method is an excellent one for any soil, as the fruits kept from the ground by pruning, are more open to the sun and ripen earlier, and the vitality, otherwise exhausted in unnecessary growth, is utilized in forming fruits of larger size, more nearly perfect in shape and of better quality. If this plan is adopted, select, when plant is about 10 inches high, the strongest branch and pinch off all others except this and the main stem. Care should be taken that the fruiting stems are not pinched off. Such, however, can soon be distinguished, as the buds form early. As the two stems grow, they should be tied at intervals of 8 or 10 inches to a stake driven deeply into the ground and which should be at least 6 feet high, as all varieties, except those of dwarf habit, will grow about as tall as this, and the most vigorous often much taller. The side branches which continue to start should be trimmed off. Seed should be sown in the hotbed or in the house in boxes, from six to eight weeks before time to set plants in the open ground, which, in this latitude is usually close to the first of June. When the plants have attained four leaves, transplant into the cold-frame, or, if seeds were sown in the house, into shallow boxes, allowing about four inches between the plants. Strong, stocky plants at time of setting can be obtained only by an unchecked growth, especially in the first stages, and plenty of air at all times. The dwarf sorts should be set in rows about 3½ feet apart, and 2½ feet apart in the row; the stronger growing varieties in rows 4 to 5 feet apart and at a proportionate distance in the row, unless intended to be staked and pruned, when they may be set somewhat closer.

JOHN BAER. An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early and are also most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the earliest to ripen and it continues to furnish marketable fruits much longer than the other very early varieties. It is a very valuable sort for market gardeners use. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

LIVINGSTON'S GLOBE. A large, purplish pink, globe-shaped or very nearly round tomato of excellent quality. Vine very vigorous and productive. Fruit rather uneven in size but very smooth and matures a little earlier than most main crop varieties. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

MATCHLESS. A large, smooth, bright red variety of excellent flavor, ripening well to the stem. Used in the east to quite an extent for main crop. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

PERFECTION. A smooth, blood red tomato. Ripens with Acme, and a week or ten days earlier than the Stone. A desirable sort for gardeners and canners who require a red tomato. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

PONDEROSA. This is one of the largest smooth tomatoes. Color, deep purple. The fruit is exceptionally solid, having but few seeds and is quite free from acid. It is also an ideal variety for shipping. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.50.

RED PEAR. Fruit bright red, rather small, distinctly pear-shaped; of rich flavor and used largely for preserving. The stock we offer is the true pear-shaped, not the large red plum often sold for it. Pkt. 10 cts.

SPARK'S EARLIANA. A deep red tomato. The vines are compact in growth, with short, close-jointed branches. This is an extra early tomato and the best so far produced. Very productive. Fruit fair size and firm. In test it ripened fruit in 108 days from date of sowing seed. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

STONE. Vines vigorous and productive; fruit, large, smooth, deep red in color, and heavy. The best all around variety, where earliness is not important. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

YELLOW PEAR. Identical with Red Pear, except in color. Clear rich yellow. Pkt. 10 cts.

YELLOW PLUM. Small, plum-shaped fruit of rich flavor. Desirable for preserving and pickling. Pkt. 10 cts.

YELLOW HUSK, or STRAWBERRY. Fruit about the size of a small cherry, borne in husks; of very rich flavor; used only for preserves. Plant also distinct. Pkt. 10 cts.



John Baer



TURNIP

An ounce will sow 150 feet of drill. If sown in drills one pound is required for an acre: if sown broadcast less seed is sufficient if sown evenly.

Turnips thrive in well-enriched, medium to light soil, succeeding best on land that was shortly before in grass, enriched at time of sowing with a liberal application of commercial fertilizer. They should not be grown on the same land two years in succession nor should they follow a crop of cabbage or radish. For early use seed should be sown as soon as ground can be prepared so that the roots will be of sufficient size before hot weather, which makes them tough and stringy. At best, early turnips are not very satisfactory. The main need for early varieties is for especially late planting, while for a long time it was held that July 25 was the latest date at which Turnips could profitably be sown, more seed is now sown after that date than before, and good roots are often obtained from seed sown as late as September 1. The roots are much sweeter if they do not attain their size until after several hard frosts. The above regarding the time of sowing applies only to the English or common Turnips; the Swedes or Rutabagas, requiring a longer season, should be sown not later than July 15. The rows of the English varieties should be from 1½ to 2 feet apart and plants thinned to 4 to 7 inches, according to variety and its top-growth. These varieties are often sown broadcast and too often too much seed is used; a half pound is sufficient for an acre if sown evenly. The Swedish varieties require more space, rows should be at least 2½ feet apart and plants should not be nearer than 10 inches. Seed of this class should never be sown broadcast.

EARLY SNOWBALL. Pure white, round, of medium size. Ready for the table six weeks after planting. Of fine quality. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

EARLY WHITE MILAN. Roots flat, smooth and symmetrical, pure white. Top very small, upright, and compact, permitting close planting. The earliest and much the best of any extra-early white variety. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

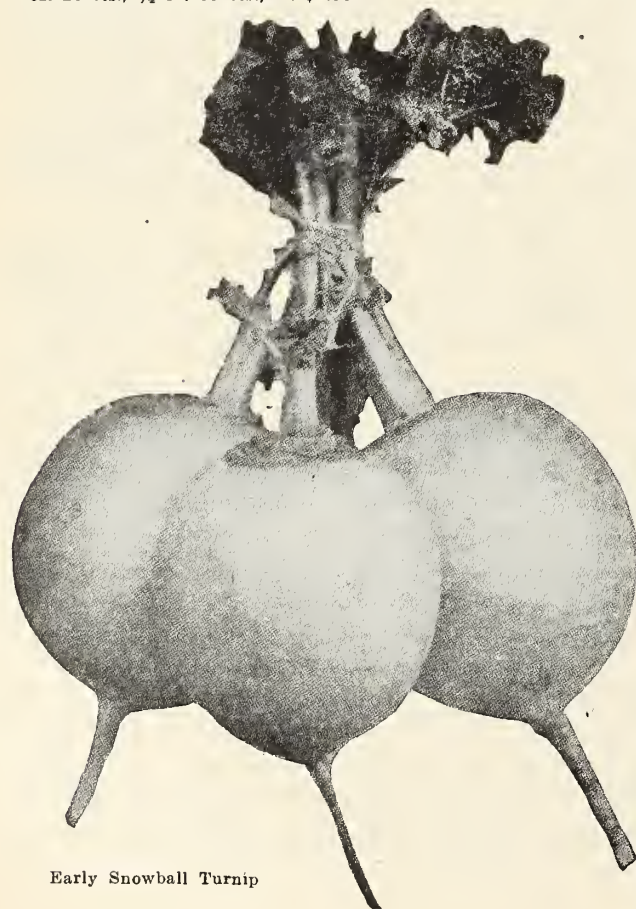
EARLY PURPLE-TOP MILAN. Differs from the preceding in that the roots are not quite so thick and are purple on top. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

EARLY PURPLE-TOP FLAT. A well-known variety and very extensively grown. Roots smooth, white, with the upper portion purplish red. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

EARLY PURPLE-TOP WHITE GLOBE. One of the handsomest varieties, the upper portion of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.



Early Purple Top Flat



Early Snowball Turnip

WHITE EGG. More extensively grown than any other variety. White, egg-shaped, smooth and symmetrical, of medium size; flesh firm, sweet and mild. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

GOLDEN BALL, or ORANGE JELLY. Of globular form, medium size, skin rich orange; flesh, pale amber, very fine-grained, mild and sweet. One of the most attractive, of the best quality and keeps well. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

YELLOW GLOBE. The standard yellow variety. The form is round, slightly flattened. Largely grown for stock, and to some extent for market. An excellent keeper. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

COW HORN, or LONG WHITE. Root long, slightly crooked and grows nearly half above ground. Clear white, except a little green at top. Though more largely used for feeding stock, it is a fine table variety, being tender, and of mild flavor. Of very rapid growth. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

Swedish, Russian or Rutabaga

SWEET RUSSIAN. An old variety, yet largely grown, mainly for table use. Sweet and mild. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

WHITE FRENCH, or ROCK. Also an old and popular sort. Roots a little longer than Sweet Russian, but does not otherwise differ. Valuable for table or feeding. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

BUDLONG. Originated in Rhode Island by Mr. Budlong, a very extensive grower of Rutabagas. Earlier and more nearly round than other white varieties of this class. Pkt. 10 cts., oz. 75 cts., ¼ lb. 75 cts., lb. \$2.50.

BREADSTONE. An early variety, white, faintly colored at top; medium size, tender, mild and sweet. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

SHAMROCK. A popular English Yellow Swede. A decided favorite with our local trade. Has short neck, shape oblong. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

LONG ISLAND IMPROVED. This is undoubtedly the finest variety of Purple-Top Rutabaga. It grows much larger than other American varieties, is, therefore, desirable for stock, but equally desirable for the table and market, as it is tender and sweet, and of very attractive appearance. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

TOBACCO

CONNECTICUT SEED LEAF. A hardy cigar variety, well adapted to growing in the Middle and Northern States. Pkt. 10 cts., oz. 40 cts.

HAVANA. Leaf very thin, fine texture. Much used for cigar wrappers. Pkt. 10 cts., oz. 40 cts.

Prices on quantities above one pound are not postpaid. If wanted by Parcel Post, send postage at Zone Rates.



BEST QUALITY CANNAS

Good strong plants grown in pots, both bronzed and green-leaved varieties, our selection, sent by express only—Price each, 20 cts.; Doz. \$2.00.

Dormant roots except Yellow King Humbert. Doz. \$1.00, postpaid; 100 for \$7.50 by express.

Dormant roots until May 1st only.

ALPHONSE BOUVIER. Brilliant crimson, deeper when fully open. Green foliage, 6 ft.

ALSACE. Delicate, sulphur-yellow, changing soon to creamy-white. Green foliage, 4½ ft.

ALEMANIA. The outer petals are scarlet, with a broad yellow border. Inside of blooms scarlet and dark red. Green foliage, 4 to 5 feet high.

BRANDYWINE. Foliage luxuriant and of the darkest hue. Flowers large, intense wine-red, beautifully mottled with deep crimson; two or three petals sometimes narrowly edged with bright gold. 4 to 5 feet high.

CHAS. HENDERSON. Deep but brilliant crimson, yellow flame at throat. A standard bedding variety. Green foliage, 4 feet high.

DAVID HARUM. A very fine, brilliant vermillion. Has bronze foliage and is very free flowering. One of the finest bronze varieties for bedding, 3½ feet.

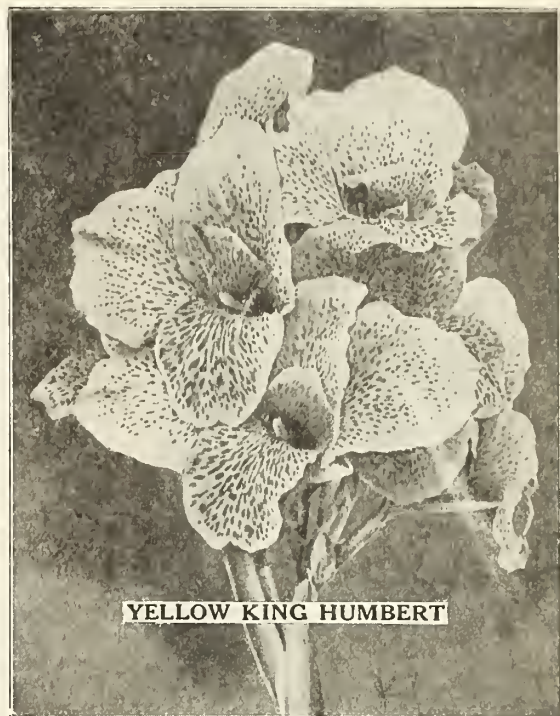
DUKE OF MARLBOROUGH. This is decidedly the darkest and richest colored Canna in existence. A deep, rich crimson-maroon. Green foliage, 4 to 5 feet high.

FLORENCE VAUGHAN. Yellow, spotted with red. One of the best. Green foliage, 4 feet high.

ITALIA. The coloring is gorgeous in the extreme. Rich golden-yellow with patches of brilliant reddish-crimson and irregular spots on upper petals. Green foliage, 6 feet high.

KING HUMBERT. Truly a king among the cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad, deep bronze foliage. It grows 4 feet high and is splendid as a center, edged with a dwarf yellow canna.

MADAME CROZY. A very popular variety. Crimson-scarlet, bordered with yellow. Green foliage, broad and massive. Often blooms when a foot high, 4 feet high.



YELLOW KING HUMBERT



Wyoming

MUSAFOLIA. This is one of the finest foliaged cannas, with enormous musa-like leaves, of a dark green, bronze-tinged color, the edges of the leaves beautifully banded with bronze-purple.

QUEEN CHARLOTTE. Deep, rich crimson-scarlet, with a border of canary yellow. Green foliage, 3 feet high.

SHENANDOAH. A splendid red or bronze-leaved sort, beautifully veined and tinted, and bears fine, large trusses of salmon-pink flowers. Blooms early and abundantly, 6 feet high.

YELLOW KING HUMBERT. A sport of that most popular of all Cannas, King Humbert, producing larger flowers of a beautiful shade of yellow, lightly spotted red, with green foliage; five and six clusters of flowers at a time. Each 25 cts., doz. \$2.50.

WYOMING. Might be called King of the Giants, for it is one of the most majestic, with the double attraction of having a luxuriant growth of rich purple foliage. Above this are borne great plumes of massive orange-colored blossoms, true orchid-shaped with large rounded petals.

BEGONIAS, TUBEROUS-ROOTED

These are, perhaps, the most beautiful of all low-growing bedding plants, and are not, as commonly thought, of difficult growth. They require a rich, mellow soil, shaded from the direct rays of the sun during the hottest part of the day. Tubers should be started early in the house and plants set in the open ground about June 1. They will bloom soon and profusely and continuously until frost.

SINGLE VARIETIES. White, Pink or Rose, Red, and Yellow and Scarlet. Each 6 cts., doz. 60 cts.

DOUBLE VARIETIES. Same colors. Each 10 cts., doz. \$1.00, postpaid.

MADERIA VINE

A rapid-growing climber with beautiful, thick, glossy wax-like leaves and bearing profusely in graceful feathery racemes, white flowers which have a fragrance resembling mignonette. Plant when ground becomes warm. Store tubers in a cold, dry place during winter. Postpaid, each 5 cts., doz. 50 cts.

CALADIUM ESCULENTUM. ELEPHANT'S EAR

A very large-leaved tropical plant of rapid growth. In warm, rich, moist soil, large bulbs will send up several stalks about 5 feet high, with leaves 2½ to 3 feet long and about 20 inches wide. Very ornamental, planted either single or in groups.

MAMMOTH BULBS, each 25 cts., 3 for 65 cts., doz. \$2.40.

LARGE BULBS, each 15 cts., 3 for 40 cts., doz. \$1.40.

If desired by mail, add for postage 15 cts. and 10 cts. each, according to size.

TUBEROSE

Bulbs may be started in the house for early flowers, or they may be planted in the open border, but not earlier than June in this latitude.

EXCELSIOR DWARF PEARL. Improved strain; plant of dwarfer habit, blooms earlier and flowers are more double than old strain. Postpaid, 3 for 15 cts., doz. 50 cts. Extra large bulbs, postpaid, 7 cts. each, 4 for 25 cts., doz. 65 cts.



GLADIOLUS

In diversity, beauty and magnificence, no other flower which can be so easily grown and with which success is so nearly certain, can at all compare with the Gladiolus. The range of colorings and marking is practically unlimited, and especially since the introduction of the thousands of new seedlings, may the claim be made that the varieties are numberless.

As a cut flower for vases, within the scope of the amateur no other flowers equal the Gladiolus in striking and effective appearance. And in lasting quality but few, if any, compare. If the spikes are cut when only the lower flowers are open they will last for a week, the upper buds opening when kept in fresh water as well or better than when left to open outdoors.

Culture—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting, but giving afterward one or two applications of commercial fertilizer. If possible avoid planting in the same place for three years.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April, and successive ones till the first of June, but for late planting bulbs should be reserved.

AMERICA. One of the finest Gladiolus known. The plant is of vigorous growth, with luxuriant foliage and producing spikes two to three feet long. The flowers are very large and of an exquisite shade of soft flesh-pink. Each 5 cts., doz. 50 cts., 100 \$3.50.

ATTRACTION. Deep, dark rich crimson, with a very conspicuous large pure white center and throat. At once a most beautiful and attractive sort. Each 6 cts., doz. 60 cts., 100 \$4.00.

AUGUSTA. Flowers are of perfect paper-white with a slight pink shade on lower half of the petal. The spike is set solid and perfect with the flowers from top to bottom. Each 5 cts., doz. 50 cts., 100 \$3.00.

BARON HULOT. Good sized flower, well arranged on straight spikes; color, dark violet bordering on blue. Each 6 cts., doz. 60 cts., 100 \$4.00.

BRENCHLEYENSIS. This is an old standard sort, and one of the best for bedding, where one shade of good scarlet is desired. Large bulbs. Each 5 cts., doz. 40 cts., 100 \$2.75.

BURBANK'S SEEDLINGS MIXED. This is a wonderful collection of new varieties produced by Mr. Luther Burbank from seed. This mixture came to us direct from him and we have grown these carefully until at this time we have a sufficient quantity to offer to our trade. In this mixture will be found many new colors and shades, including many with varied markings. Flowers are all of immense size. We feel satisfied that we have never before offered a mixture to compare with them. Each 10 cts., doz. \$1.00, 100 \$7.50.

EMPRESS OF INDIA. Rich, velvety maroon with white blotch in the throat; the darkest Gladiolus. A very handsome flower. Each 10 cts., doz. \$1.00.

EUROPA. The finest pure white Gladiolus. This new variety is of perfect form, produced on strong, stiff, tall spikes, usually bearing from 20 to 25 pure white blossoms. The flowers open very rapidly and it is not uncommon to have from ten to twelve of these open at the same time; the formation is very close and compact, making a perfect spike from the time when the first bud opens until the last. Each 15 cts., doz. \$1.50, 100 \$12.00.

LILLY LEHMAN. White, rose tinted. An elegant flower. Each 10 cts., doz. \$1.00, 100 \$7.50.

MRS. FRANK PENDLETON. One of the most exquisitely colored and formed Gladiolus in our entire list. In addition, the size of bloom is not exceeded by any other. The color is a delicately flushed salmon-pink, the color extending to the reverse side of the petal as well as in the center. The blooms are wide open and are arranged individually on the very slender but wiry stems. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals. Each 15 cts., doz. \$1.50, 100 \$10.00.

MRS. FRANCIS KING. A new variety which excited great comment and admiration, both for size of flower and beauty; the color of the flower is a light scarlet; the flowers are very large, usually measuring from 3½ to 4 inches in diameter. Each 6 cts., doz. 60 cts., 100 \$3.50.

NIAGARA. In type the variety resembles "America," but the flowers appear to be somewhat larger, measuring 4½ inches across. In color the flowers are a delightful cream shade with the two lower petals or segments blending to canary yellow. The throat is splashed with carmine, and the lower ends of the outside petals are also blushed with carmine. Destined to lead in the cream colored varieties. Each 10 cts., doz. \$1.00, 100 \$7.00.

PANAMA. A new seedling of "America," which resembles the parent variety in every way except that it is a much deeper pink. A grand variety which evokes words of praise wherever exhibited. Awarded First-Class Certificate by Newport Hort. Society, September 16th, 1911. Spike very long with flowers large and well arranged. Each 10 cts., doz. \$1.00, 100 \$7.00.



America

GOLDEN WEST. One of the best exhibition varieties on account of the variety of markings, the color being a clear orange scarlet, the lower petals striped and blotched with golden yellow faintly suffused with violet shadings. The individual flowers are of large size and seem to stand out boldly, making it very noticeable among any collection. Each 10 cts., doz. \$1.00.

GLORY OF HOLLAND. Very fine, white, tinted rose. Each 10 cts., doz. \$1.00, 100 \$7.50.

HALLEY. Delicate salmon-pink predominates, with a slight rosy tinge, lower petals have a creamy blotch, with a bright red stripe in center. Each 8 cts., doz. 75 cts., 100 \$5.00.

HOLLANDIA. A new variety, which surpasses most others in length of spike and bearing an unusual number of well-arranged flowers, many of which are open at once. A lovely pink shade, tinted yellow. Each 8 cts., doz. 75 cts., 100 \$5.00.

KLONDIKE. A lovely variety; pale yellow, with large blotch of vivid crimson-maroon in the throat. Of medium size and form, somewhat similar to the Lemoine type, but more open. The spike though rather slender, is wiry and straight; the foliage strong and healthy. Each 8 cts., doz. 75 cts., 100 \$5.00.

"KUNDERDI GLORY." This is a very distinct type, each petal being beautifully ruffled and fluted, a feature especially noticeable in orchids and which gives to the Glory a refined and delicate beauty quite beyond the most beautiful of the best of the older types. The broadly expanded flowers are borne in pairs, all facing one way, on straight, strong stalks fully 3½ feet in height. From three to six, and sometimes eight flowers are open at one time. The color is a delicate cream-pink with a most attractive crimson stripe in the center of the lower petals. Each 10 cts., doz. \$1.00, 100 \$7.00.



EVERYBODY KNOWS ROSS' SEED GROWS



GLADIOLUS—Continued

PEACE. The flowers are beautiful white, the inside of the petals feathered pale lilac; it is not an early bloomer, but if planted with other varieties will flower about the time they are finished. Each 10 cts., doz. \$1.00, 100 \$7.00.

PINK BEAUTY. Bright carmine rose with darker blotch on lower petals, early. Each 6 cts., doz. 60 cts., 100 \$3.50.

PRINCEPS. Of immense size, dazzling scarlet with white blotch on lower petals. Spike $3\frac{1}{2}$ to 4 feet high, stout and always straight. Each 10 cts., doz. \$1.00, 100 \$7.00.

SCHWABEN. A variety of extreme vigor, many of the bulbs producing two or three flowering stalks which very often produce side branches besides. The stalks produce about 20 very large flowers, 6 to 8 usually open at one time. The color is the best of clear Canary yellow, shading to a soft sulphury yellow when opening. The center of the flower is a deep golden yellow with brownish earmine blotches. The foliage is very distinct, being broad, strong and of a rich green color. Certificate of merit in Paris, 1910. Each 15 cts., doz. \$1.50, 100 \$10.00.

SULPHUR KING. This splendid variety is generally conceded to be the finest clear yellow yet introduced. It produces extra long spikes, well filled with its attractive flowers which are of good size. Each 20 cts., doz. \$2.25.

WILLY WIGMAN. (First-class certificate.) Creamy white, scarlet blotched, extra large bloom. Each 10 cts., doz. \$1.00, 100 \$7.00.

WHITE SANDISONI, or SNOWBANK. Pure white, except slight strain of earmine at base of petals. Flowers of medium size. A lovely variety. Each 6 cts., doz. 60 cts., 100 \$3.50.



Peace

Before the ground freezes dig up the bulbs, cut off the stalks closely and store in a cool, dry place. The old bulbs may be removed a few weeks later when convenient.

All Gladiolus
sent postpaid
at prices
quoted



Kunderdt Glory

OUR WORCESTER MIXTURE

A mixture of our own preparation comprising many named varieties, selections from all classes, unsurpassed in diversity of both colors and types and in quality of flowers. Includes a good proportion of white and light shades and well balanced generally in proportion of colors. We consider this mixture the best value we offer. Doz. 50 cts., 100 \$3.00.

OUR CHOICE MIXTURE

A mixture containing a good proportion of white and light varieties and well balanced generally. It has been our purpose to make the Choice Mixed as much like the Worcester as possible for the price, and as with that, our work has been one of constant improvement; it is of greater value now than ever before. Doz. 30 cts., 100 \$2.00.



Decorative Dahlias

All Dahlias sent postpaid at prices quoted.

This class includes all large, loose-flowering varieties which do not properly belong to the Cactus class. They are of very free-blooming habit and flowers are usually of the largest size. Decorative Dahlias are large, flat, and full to the center; petals quite irregularly situated, long, broad, flat, and nearly straight.

BLACK PRINCE. Very dark maroon, nearly black. Each 20 cts., doz. \$2.00.

JACK ROSE. Brilliant crimson-red, similar in shade to the well-known "Jack" rose. One of the best for cutting. Each 25 cts., doz. \$2.50.

JEANNE CHARMET. A pleasing shade of violet-rose on a lighter ground. A splendid flower for cutting. Each 20 cts., doz. \$2.00.

LYNDHURST. Fiery scarlet, very free bloomer. Each 15 cts., doz. \$1.50.

MINOS. One of the finest Dahlias to date. The flowers are large, and exceedingly beautiful, borne on long, graceful, wiry stems. The color is intense velvety maroon, almost black. An ideal cut-flower variety. Fine for all uses. Each 20 cts., doz. \$2.00.

MME. VAN DEN DAELE. A grand Dahlia of highest Decorative type. Flowers large, of extra fine form, and produced upon exceptionally good stems, well above the foliage. As a cut-flower variety it is unsurpassed. The color, white, deeply edged live silvery-pink. A Dahlia which bears my highest recommendations. Each 25 cts., doz. \$2.50.

MRS. WINTERS. Pure white, very large. Each 25 cts., doz. \$2.00.

OBAN. Rosy-lavender suffused silvery-fawn. A fine large flower and plant blooms profusely. Each 15 cts., doz. \$1.50.

SOUVENIR DE GUSTAVE DOUZON. This variety is a good comparison to the "Sunflower." It is the largest Dahlia in existence. The color is a pleasing shade of orange-red. The flowers are full to the center, and often measure 9 inches and over in diameter, and they can be forced to measure over 12 inches. The plant is a very tall, vigorous grower, with heavy, dark, glossy green foliage, and a remarkable constitution. Very long stems, of pleasing, stiff, upright type. "Souv. de Gustave Douzon" should be in every garden. Each 20 cts., doz. \$2.00.

W. W. RAWSON. The popularity which this novelty has acquired in the short time it has been on the market, speaks for itself for the superior feature of this flower. The petals towards the center are

quite similar to the "Grand Duke Alexis"; toward the outer part they

are more open and flat. The color is pure white, overlaid with amethyst-blue.

This wonderful combination gives it the appearance of a delicate lavender. The flowers measure from 7 to 9 inches in diameter. See illustration. Each 35 cts.

WM. MILLER. Very brilliant purple. This is a fine variety of the Decorative type. Each 15 cts., doz. \$1.50.

YELLOW COLOSSE. An ideal Dahlia that appeals to everyone on account of its distinct color, gigantic size and beautiful appearance. This magnificent variety is the best exhibition yellow in existence, being rich, refined and delicate. Large, showy flowers of pure primrose-yellow are produced very freely on long, graceful stems. Its golden cup-shaped petals are daintily arranged, completing this beautiful, perfect flower. Each 25 cts., doz. \$2.50.



Pompon or Bouquet Dahlias

15 cts each, \$1.25 per doz.

Small-flowered varieties; the best of all for cutting, blooming more freely and usually having extra-long stems. The flowers are of the same form as the Show Dahlia.

BELLE OF SPRINGFIELD. Dark scarlet, very fine, small bloom.

LITTLE BESSIE. Creamy white. Extra fine.

ARIEL. Orange-buff.

FAIRY QUEEN. Sulphur-yellow,

edged pink.

DARKEST OF ALL. Nearly black.

Best dark.

FASCINATION. Pink and lavender, blotched white.

GUIDING STAR. White, quilled petals.

H. C. WINTERS. Pale fawn.

HENRIETTA. Yellow tipped crimson.

MARGUERITE. Deep lilac.

MAY CLIFT. Light maroon.

SUNBEAM. Crimson. Fine.

Peony-Flowered Dahlias

All Dahlias are sent postpaid at prices quoted. If desired by express, 10 cts. may be deducted from dozen prices.

Never before has a new type of flower been received with so much popular acclaim as has been accorded the Peony-flowered Dahlia. This new type was originated only eight years ago in Holland and is today the Dahlia of the future because of its grace and beauty, remarkable freedom to flower and length of stems, all of which combine to make it an ideal garden variety.

P. W. JANSEN. Rosy-salmon with a shade of yellow; an elegant flower, borne on stout erect stems never less than 2 feet in length; a rich and pleasing shade. Each 25 cts.

FRANCONIA. Wine color, dark velvety-crimson, shaded with yellow; long, straight stems; height 4 feet. Each 25 cts.



W. W. Rawson



EVERYBODY KNOWS ROSS' SEED GROWS



LA RIANTE. The finest sort for mass effect or hedges; plants grow 3½ feet high and their flowers are borne on enormously long stems, in clusters from 2 to 4, far away from the foliage; color a deep pink. Each 25 cts.

PRISCILLA. A seedling from the well-known dahlia "Souvenir de Gustave Douzon." Color, a light orange-scarlet. Each 25 cts.

QUEEN EMMA. Soft lavender-pink; of refined form and good keeper. Each 25 cts.

QUEEN WILHELMINA. The most satisfactory pure white flower; the petals are elegantly twisted and are of glistening white; the plant is extremely free blooming and makes a splendid companion for "La Riente" as a hedge plant. Each 25 cts., doz. \$2.50.

MIXED DAHLIAS

Postpaid, 90 cts. per doz.; by express, 80 cts. per doz., \$1.50 for 25, \$5.00 per 100.

These include some of our best varieties, those of which labels have been lost, and at times, varieties of which we have a surplus. While all classes are usually included, we give no guarantee that any lot sent out will include all, nor should it be understood that the consumer is privileged to order those of any one class. We shall, however, send a good assortment of colors, and are sure the mixture will be found very satisfactory.

SHOW AND FANCY DAHLIAS

Show Dahlias—These are large, spherical, regular, compact and full to the center. The flowers are either solid, edged, tipped or shaded darker.

Fancy Dahlias—In form and habit identical with the Show Dahlia, but different in arrangement of colors. The flowers are tipped or edged lighter than the ground color, or splashed, striped, mottled and variegated, in every conceivable manner. They often throw a solid flower, on the same plant.

A. D. LIVONI. Beautiful soft pink. Well formed flowers with long stems. Very desirable for cutting. A very reliable old standard variety, grown by most every dahlia-lover. Perfectly round, ball shaped flowers, each petal being very tightly quilled, and arranged in exact irregularity. Free flowering. Each 15 cts., doz. \$1.50.

ACQUISITION. An exquisite shade of deep lilac. Very large with cup-like petals. Especially good for cut-flower purposes. Each 20 cts., doz. \$2.00.

GOLDEN AGE. Sulphur yellow. Free flowering. Each 15 cts., doz. \$1.50.

IMPERIAL. Deep purple-maroon. Each 20 cts., doz. \$2.00.

LUCY FAUCETT. Pale yellow, striped deep pink, or light magenta. One of the best of this set. Very large and free. Each 20 cts., doz. \$2.00.

METEOR. Ruby red, large. Each 20 cts., doz. \$2.00.

MERLIN. A beautiful orange-scarlet. One of the very finest dahlias ever offered. Free-flowering and good for cut-flower purposes. Each 20 cts., doz. \$2.00.

GRAND DUCHESS MARIE. Rich buff overlaid orange. Each 25 cts., doz. \$2.50.

ROBERT BARNFIELD. Pure white. Tall grower. Each 15 cts., doz. \$1.50.

STORM KING. The most reliable white Show Dahlia to date. In color, a pure white. Flowers produced on good stems, well above the foliage. Free-flowering. Each 15 cts., doz. \$1.50.

STRADELLA. Beautiful deep purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest to date. Each 20 cts., doz. \$1.50.

QUEEN VICTORIA, or MARY D. HALLOCK. Canary-yellow. Each 15 cts., doz. \$1.50.

Cactus Dahlias, Choice Standard Varieties

This class is of comparatively recent introduction, and is entirely distinct from any other class. The flowers are loosely and artistically formed, and very irregular, resembling the Chrysanthemum. Petals long, twisted, and terminating in a point. Some varieties possess nearly straight petals, others are gracefully incurved.

ALIGHT. Rich deep orange-scarlet, very large, free. Each 20 cts., doz. \$2.00.

BORNEMANN'S LIEBLING. Delicate soft rose-pink. Each 20 cts., doz. \$2.00.

CAPSTAIN. Soft red, tinted apricot. Each 15 cts., doz. \$1.50.

CLARA G. STEDWICK. Clear, bright salmon, shaded yellow at base of petals. Large flowers, with long, slim, twisted petals. Free-flowering. Each 25 cts., doz. \$2.50.

COUNTESSE OF LONSDALE. Deep salmon-red. One of the best. Very free. Should be in every garden. Each 25 cts., doz. \$2.50.

CREPUSCULE. A gigantic flower, pale orange-yellow at center, exquisitely deepening to beautiful deep amber buff, at outer petals. This variety has won many first prizes as an exhibition flower. A beautifully formed, refined flower, which blossoms early, and produces its flowers in remarkable quantities. Each 25 cts., doz. \$2.50.

EARL OF PEMBROKE. Bright plum color. Large, bold flower. Each 15 cts., doz. \$1.50.

EUREKA. This variety has all the good qualities of the Dahlia, being properly named. Color, very deep purple. Petals long, straight, and tightly quilled. Each 25 cts., doz. \$2.50.

F. H. CHAPMAN. A gigantic reddish-orange Cactus Dahlia of exceptionally fine form. The petals are exceedingly long, narrow and tightly quilled, making a monstrous flower. An ideal Dahlia, which produces its gigantic wonders in great abundance. The plants have a pleasing, upright style of growth. Each 20 cts., doz. \$2.00.

FLORADORA. Wine crimson. Flowers produced with profusion, upon good stems. Moderately incurved. Each 20 cts., doz. \$2.00.

FORBES ROBERTSON. Beautiful reddish-orange. A very satisfactory variety, flowers having long, straight, star-shaped petals, and in addition to the long petals common to all Cactus, there is a profusion of smaller narrow, threadlike petals, or secondary florets, which intermingling with the main florets, making it one of the most novel. Each 25 cts., doz. \$2.50.

FRED COBBOLD. Bright crimson. One of the best. Large, beautifully formed flowers. Very free. Moderately incurved. Each 25 cts., doz. \$2.50.



Peony Flowered Dahlia

GENERAL BULLER. A rich, velvety crimson-maroon, tipped white. Occasionally a solid crimson flower on same stalk. One of the most attractive "Fancy Cactus" varieties. Each 15 cts., doz. \$1.50.

GENISTA. A beautiful deep orange, quickly changing to gold. An exquisite blending of colors not common in Dahlias. Free-flowering, fine shaped flowers, borne well above the foliage, upon stiff, wiry stems. Plants strong and sturdy, of an upright pleasing growth. Each 20 cts., doz. \$2.00.

J. H. JACKSON. The finest black Cactus Dahlia in existence. An exceptionally satisfactory all-round Dahlia; one of the most prominent for garden decoration, superb as a cut-flower variety, and equally good as an exhibition flower. In color, a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic in size. Every Dahlia-lover should grow this variety. Each 20 cts., doz. \$2.00.

KING EDWARD VII. Brilliant cherry-red. A beautifully shaped flower, possessing very long, straight, star-shaped petals. Each 20 cts., doz. \$2.00.

KRIEMHILDE. The Queen of the Cactus Dahlias; flesh delicate pink, shading to white in the center; very late flowering. Each 20 cts., doz. \$2.00.

LADY FAIR. Lady Fair is a wonderful new variety of absolutely unique formation; the florets being very long, narrow and daintily fringed at the ends, which makes it entirely different from any other variety in existence, and so gracefully incurved, twisted and interlaced, that at first sight one would think it a chrysanthemum. The color is an exquisite shade of primrose, daintily overlaid soft pink. A very late flowering variety, but one of the finest novelties in the Dahlia world. Each 25 cts., doz. \$2.50.

MARY SERVICE. Pinkish apricot, or heliotrope. A very free-blossoming variety, flowers stand well above the foliage. Many call this a rich salmon-pink shade. Each 15 cts., doz. \$1.50.

MRS. DE LUCA. Golden yellow, tipped with orange. A most effective blending of colors, seen only in the very rare types. The plants are tall, sturdy, of exceptionally good habit, and produce their flowers in great quantities, upon very long, straight stems. Very early flowering. Each 20 cts., doz. \$2.00.

PRINCE OF ORANGE. One of the most attractive varieties. A rich shade of old gold at the outer-petals with a bright yellow center; very showy. Each 20 cts., doz. \$2.00.

STELLA. Rich, vivid scarlet; deep, bold flower. Each 25 cts., doz. \$2.50.

STERN. Bright primrose-yellow. The flowers are large, petals long and pointed. One of the most satisfactory varieties. Each 15 cts., doz. \$1.50.

T. A. HAVEMEYER. A distinct yellow shade at the base, deepening to bronze. The greater portion of the flower being deep red, with a decidedly lighter tinge at points. Each 25 cts., doz. \$2.50.



A WONDERFUL NEW ASTER

HEART OF FRANCE

The best pure red Aster ever introduced. All others have sombre shades of blue or too much yellow in the color pigments. Heart of France opens red as the purest ruby, deepens with age and retains its remarkable beauty to the very end. The petals appear strikingly changeable, showing now a glow and sheen quite unique, now a soft warm velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and will command instant admiration.

The flowers are large and full with never a trace of hollow center. The plants are of branching type and very robust habit. The stems are long and strong and have very few laterals. The plants begin to bloom quite early in the season and open fully with the mid-season varieties. They retain their brilliancy and luster for a longer period than almost any other color.

This will be a tip-top variety for florists as well as home gardeners for the reason that the flowers and stems are so large and vigorous and their shipping and long keeping qualities are such as to make it a winner for almost any purpose. Heart of France will surely supplant all other reds and near reds of either branching or upright types because of its marvelous beauty and other satisfactory characteristics. Price 25 cts. per packet.



Aster, Heart of France

SALVIA

BONFIRE—This variety, without question, is the finest Salvia for bedding yet introduced. The plants grow into very compact oval bushes, about 2½ feet high and produce long spikes of brilliant scarlet flowers. They stand out stiff and erect; over 200 spikes to a plant is not unusual, and the spikes bear from twenty to thirty flowers each. Gorgeous effects can be produced with the Bonfire Salvia massed on the lawn or in the garden, or planted in rows along a sunny drive, where the brilliant scarlet is simply dazzling. Price: Pkt. 10 cts.; ⅛ oz. 50 cts.

DOUBLE COSMOS

These new hybrids form bushy plants 5 to 6 feet high and flower profusely during the autumn months. Only 40 to 50 per cent. of the plants will bear double flowers, the balance producing large single blossoms, the reason being that the double flowers are pistillate—having no stamens and consequently bear no pollen—so to produce seed must depend upon staminate singles for pollination. The progeny therefore comes about half doubles and half singles. Double Cosmos flowers aside from their novelty and beauty are of lasting substance, both on the plants and as cut flowers. The colors so far produced are white, pink and crimson, which we offer in mixture. Price: 25 cents per packet.



Double Cosmos

CHINESE WOOL-FLOWER

A unique type of *Celosia plumosa* whose plant, set in the ground, looks like an immense bouquet splendidly arranged. The plant grows two to three feet high and throws out scores of branches, bearing beautiful, ball-shaped flower heads resembling balls of wool. The flowers, which are of a deep crimson-scarlet, bloom profusely during the summer and fall, and retain their full beauty and color until destroyed by severe frost. Packet, 20 cents; two for 35 cents.



Aster, Peerless Yellow

PEERLESS YELLOW

The best yellow Aster ever introduced—a big yellow Aster with type securely fixed. Every flower will come a beautiful chrysanthemum yellow. The flowers are remarkably full and ball shaped, with centers so deeply covered with curled and twisted florets that the variety is almost a record breaker in scarcity of producing seed.

The plants are of branching type and very vigorous. It is not unusual to find a plant with from twenty to thirty good flowering stems sufficiently long and with flowers of ample size for extra fancy cut flower purposes. So numerous and large are the flowers that the plants are completely covered like a golden dome. Frequently visitors comment on its resemblance to a miniature yellow snowball. In a bed the plants will easily fill across two foot rows. In a border a single row is ample. It is certainly a winner in its class and color. Price 25 cents per packet.



FLOWER SEEDS

Cultural Suggestions

Though some seeds need special treatment, the following general directions for outdoor culture apply to all. Make the soil fine and even by digging and raking. Though seeds should not be sown nor ground worked when it is wet and soggy, moisture is essential to the successful germination of seeds; therefore sow only on freshly worked soil. If the season is hot and dry, and soil has become dry to some depth, water profusely several hours before planting, rather than at time of sowing. Sow in rows that the young plants can be easily seen, and each lot of seeds at a uniform depth, which should generally be four to six times the diameter of the seed. Make the soil over the seeds firm. This is very important, as it prevents, to a great degree, the escape of moisture. If weather following is hot and dry, it may be necessary to water. Water thoroughly; and, once commenced, regularly or not at all. A mere sprinkling, irregularly done in hot weather, allowing the soil to become dry at times, does more harm than good, as it causes a hard crust to form, through which, if the seeds germinate, the fine tender growth of the young plants can not penetrate. Some plants do not bear transplanting well, so seeds should be sown where plants are to remain. Seeds of most plants may, however, be sown in beds and the young plants transplanted, if desired. Transplanting is, of course, more easily done in rainy weather, but, if necessary, can be safely done in hot, dry weather by giving the soil a good soaking, and then shading the plants for a few days. Give frequent but shallow cultivation. Keep in mind that the main object of cultivation is to assist the growth of the plant, and not to simply destroy weeds. Shallow cultivation conserves moisture by converting the top soil into a fine mulch.

FLOWERING PLANTS ARE CLASSIFIED AS ANNUALS, BIENNIALS AND PERENNIALS.

ANNUALS attain full growth from seed, flower and die in one year.

HARDY ANNUALS can usually be sown as soon as the ground is worked in the spring.

BIENNIALS grow from seed one year, bloom and die the next, though some bloom the first season when sown early.

PERENNIALS live for a number of years, blooming annually after the first season, although some will flower the same year if sown early.

HALF-HARDY BIENNIALS and **PERENNIALS** require winter protection of plants.

HOW TO ORDER

When ordering, always give catalogue variety number; and while it is not necessary to give name it often serves to indicate more fully what the customer desires, as in the event of the number and name differing, we always send the variety indicated by the name as probably the one desired.

All Flower Seeds by the packet, fraction of an ounce, ounce and quarter-pound, sent postpaid at prices quoted. In larger quantities, by the half-pound and pound, they will be sent at option of the customer, either by mail, postpaid, or by express at customer's expense, as per quotations.



Giant Branching Aster

ASTERS

Our Aster seeds, procured from the most noted American and European growers, are of unsurpassed quality. This popular annual thrives in nearly all soils if well enriched. Seed may be sown in the open ground early in the spring, in this latitude usually by the last of April. The first week in May is early enough, as plants from seed sown then will usually be through blooming before frost. Good blooming plants are often grown from seed as late as the middle of June, but when sown so late as this, the early varieties are preferable and the plants should be grown in rich soil, with the best of care.

1 QUEEN OF THE EARLIES, or EARLIEST PARIS WHITE. One of the earliest white Asters; stems long; fine for cutting. Pkt. 10 cts., 1/8 oz. 40 cts.

QUEEN OF THE MARKET. A very early-blooming strain, which, though plant is only 1 1/4 feet high, bears from ten to fifteen well-formed, medium-sized flowers on long stems. Much used by florists.

4 White. 5 Rose. 6 Light Blue. 7 Pink. 8 Crimson. 9 Mixed Colors. Each, Pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 75 cts.

15 EARLY SNOWDRIFT. An extra-early variety. Plant of slender growth, having but few and narrow leaves, bearing in profusion on long, upright stems, large pure white flowers of very feathery and graceful appearance, and always full and double. Of American origin. Originator's stock. Pkt. 15 cts.

20 DAYBREAK. Flowers very large and full, and borne on long stems, color a beautiful shell-pink. The plant blooms early and profusely, and is of strong and compact habit. Very popular. 2 feet. Pkt. 10 cts., 1/8 oz. 60 cts.

21 PURITY. Pure White. A desirable companion to Daybreak. Identical in form of flower and general habit. Blooms at the same time. Pkt. 10 cts., 1/8 oz. 60 cts.

23 LAVENDER DAYBREAK. Soft, clear lavender. Of same type as Purity and Daybreak. Pkt. 10 cts., 1/8 oz. 60 cts.



American Branching



ASTERS—Continued

VICTORIA. Considered for a long time one of the finest types, and improved in recent years. The flowers are large, double, imbricated, having petals which curve outward like those of the show dahlias. Bears freely, beautiful long-stemmed flowers.

62 **Mixed Colors.** A superb mixture. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

GIANT BRANCHING COMET. Distinct and valuable; flowers resemble the Japanese chrysanthemum. Not only larger, but petals are longer and somewhat broader than the old Comet section. The plant is of vigorous, luxuriant growth and produces freely its long-stemmed, graceful flowers. $1\frac{1}{2}$ to 2 feet.

70 **White.** 71 **Light Yellow.** 72 **Azure-Blue.** 73 **Rose.** 74 **Light Blue and White.** 75 **Crimson.** Each, pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

80 **Mixed Colors.** Many colors and shades. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts.

81 **MIKADO PINK.** In type, Mikado Pink belongs to the Comet class. Petals are narrow, very long and gracefully reflexed. In color it is a most exquisite shade of shell-pink. Strong-growing, free-branching, long-stemmed plants. In growth these plants are unusually vigorous for their type. It is not uncommon to find plants with a dozen long, strong, graceful stems, each crowned with flowers from $4\frac{1}{2}$ to 6 inches in diameter. Pkt. 15 cts., $\frac{1}{8}$ oz. 60 cts.

82 **MIKADO WHITE.** Similar in every respect to Mikado Pink except color, the flowers having the same deep, fluffy form, and the plant the branching habit ascribed to the above. Blooms at the same season. Each is the best of its color in the Comet class. Pkt. 15 cts., $\frac{1}{8}$ oz. 60 cts.

CREGO'S GIANT. A remarkably new strain of the Giant Comet type. The flowers are considerably larger and the petals are more curled. They are borne on long stems and are very graceful; of enormous size; closely resembling chrysanthemum. Of robust branching habit, and blooms earlier than the Giant Comet, $2\frac{1}{2}$ ft.

85 **White.** 86 **Light Blue.** 87 **Rose.** Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

90 **Mixed Colors.** Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., oz. \$2.75.

CREGO. Of the Comet type; similar to Crego's Giant; petals twisted and curled into a very fluffy effect.

95 **Shell Pink.** Pkt. 15 cts.

96 **White.** Pkt. 15 cts.

104 **LAVENDER GEM.** Of the Ostrich Feather type. Flowers large and remarkably free from single and semi-double specimens. The feathery effect is increased in a large proportion of the flowers by long, partly tubular florets, irregularly cut and slashed. The color is an exquisite shade of lavender, which deepens with age. The plant branches close to the ground and blooms profusely and very early. 2 feet. Pkt. 10 cts., $\frac{1}{8}$ oz. 60 cts.

AMERICAN BRANCHING. A superior late-blooming strain of American origin. The flowers are of the largest size, borne on long, graceful stems, often 15 or more inches in length, are exceedingly beautiful and unsurpassed for cutting. The plants are of extra large and strong growth, and bloom profusely. $2\frac{1}{2}$ feet.

108 **White.** 109 **Pink.** 110 **Lavender.** 111 **Crimson.** 112 **Purple.** Each, pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.75.

116 **Mixed Colors.** Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.60.

117 **VIOLET KING.** In habit similar to the American Branching. The flowers are entirely distinct from any other, petals somewhat resemble those of the quilled sorts, but are much larger, those in the center being curiously twisted, curled and incurved, completely covering the crown. In shape and size, round, full, and very large, often 4 and 5 inches in diameter; color, soft violet-lilac. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

SEMPLER'S BRANCHING. The plants of this Early Branching Aster attain the size and vigor of the famous American Branching, but blossom from 10 days to 2 weeks earlier. Extra large, perfectly formed flowers on long stiff stems make them especially desirable for cutting, for exhibitions or for sale.

118 **Lavender.** 119 **White.** 120 **Shell Pink.** 121 **Crimson.** 122 **Mixed.** Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts.

124 **WORCESTER MIXTURE.** Our own mixture of the leading choice varieties, includes every color and shade known among Asters, and will afford, especially if purchased in bulk, the greatest diversity of both colors and types. Purchasers of a single packet may be certain of securing a choice collection of desirable varieties. Pkt. 10 cts., $\frac{1}{8}$ oz. 35 cts., $\frac{1}{4}$ oz. 65 cts., oz. \$2.25.



Semple's Branching Aster

125 **GOOD MIXED** Our own mixture of many varieties; a wide range of colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.75

ASTERMUM. A strain of Giant Comet Asters which, on account of their immense size and Chrysanthemum-like appearance, have appropriately been named Astermums. The plants grow about 2 feet high with long, strong stems and should come into bloom about the middle of August.

126 **White.** 127 **Pink.** 128 **Lavender.** Pkt. 15 cts.

ABRONIA

A beautiful little trailing plant, bearing freely in the autumn months verbena-like fragrant flowers. Sow in the house and transplant, or very early in the open ground. Hardy annual.

130 **ARENARIA.** Yellow. Pkt. 5 cts.

131 **UMBELLATA.** Rose, white eye. Pkt. 5 cts.

ACHILLEA

135 **PTARMICA, The Pearl.** One of the best white, hardy perennials, bearing profusely and continuously from June until frost, beautiful small, white, double flowers; useful for cutting. Easily grown from seed, desirable and often used in cemeteries. 2 feet. Pkt. 5 cts.

ACROCLINIUM

EVERLASTING FLOWER

A half-hardy annual, bearing attractive white and rose-colored single and double flowers chiefly used when dried for winter bouquets and wreaths; for this purpose, flowers should be cut before fully expanded. $1\frac{1}{4}$ feet.

139 **Light Rose and Pure White, Mixed.** Pkt. 5 cts.

ADLUMIA

140 **CIRRHOSA** (Mountain Fringe; Allegheny Vine.) A beautiful hardy, climbing biennial, which usually self-sows. The feathery foliage resembles that of the maidenhair fern. Of rapid growth and produces, in great profusion, small, tube-shaped pink blossoms. Of the easiest culture. Desirable for covering trellises, stumps, etc. 10 to 15 feet. Pkt. 5 cts.

ADONIS

Hardy, free-flowering plants, bearing showy, attractive flowers, and requiring little care. Seed should be sown in the open ground in the autumn, or started early in March.

144 **AESTIVALIS** (Flos Adonis; Pheasant's Eye.) Hardy annual, bearing intense, blood-red flowers, which, in contrast with the finely cut, dark, green foliage, give the plant a very striking appearance. 1 foot. July and August. Pkt. 5 cts.

145 **VERNALIS** (Ox-Eye.) Hardy perennial, blooming early in spring; when once established, may be easily increased by division. Flowers large, yellow. 18 inches. May and June. Pkt. 5 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



Ageratum

AGERATUM

One of the best hardy annuals for summer bedding flowers. Easily grown from seed, which should be sown in the house, as it lengthens the time of blooming which continues until frost. Its season, however, compares favorably in length with other annuals when seed is sown in the open ground. Set the dwarf kind 10 inches apart, and they soon make a mass of color.

- 148 MEXICANUM. Blue. 1½ feet. Pkt. 5 cts., ¼ oz. 25 cts., oz. 75 cts.
 149 MEXICAN ALBUM. White. 1½ feet. Pkt. 5 cts., ¼ oz. 25 cts., oz. 75 cts.
 150 IMPERIAL DWARF WHITE. 8 inches. Pkt. 5 cts., ¼ oz. 25 cts., oz. 75 cts.
 151 LITTLE DORRIT. Azure-blue. 8 inches. Pkt. 5 cts., ¼ oz. 25 cts., oz. 75 cts.
 152 IMPERIAL DWARF BLUE. 8 inches. Pkt. 5 cts., ¼ oz. 25 cts., oz. 75 cts.
 153 LITTLE BLUE STAR. A miniature variety with beautiful mauve flowers. 5 inches. Pkt. 15 cts.
 154 BLUE PERFECTION. Large heads of Amethyst-blue flowers; plant of very even growth, about 8 inches high. Pkt. 10 cts., ½ oz. 25 cts.
 158 MIXED COLORS. All varieties mixed. Pkt. 5 cts., ½ oz. 25 cts., oz. 45 cts.

AGROSTEMMA

Pretty, free-blooming plants of easy culture, especially desirable for dry situations. Excellent for cutting.

- 160 COELI-ROSA. (Rose of Heaven). Rose, white center. Hardy annual. 1½ feet. Pkt. 5 cts.
 161 CORONARIA. (Rose Champion). One of the earliest hardy perennials. 1½ feet. Mixed colors. Pkt. 5 cts.

ALYSSUM

A well-known, favorite, hardy annual, blooming profusely the entire season. Excellent for edgings. No other white flower is so well adapted for a dense, low carpet, or as borders and ribbons in garden work. Extremely fragrant and frequently used for bouquets. Of easiest culture. Sure to make a good display. Sow seed early in April.

- 166 SWEET ALYSSUM. Fragrant, white, 1 foot. Pkt. 5 cts., ¼ oz. 20 cts., oz. 60 cts.

ANTHEMIS TINCTORA

(Hardy Golden Marguerite)

A beautiful, hardy perennial of easy culture, bearing all summer, golden yellow, daisy-like flowers, excellent for cutting. Plants bushy and should stand at least 2 feet apart. Height 2 feet.

- 190 KELWAYI. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

ANTIRRHINUM

(Snapdragon)

One of the most beautiful and useful bedding plants, blooming profusely throughout the summer. Fine for cutting.

- 191 SILVER PINK. A splendid commercial variety, long-stemmed, large flowered, delicate rosy pink, seemingly covered with a silver sheen. Pkt. 25 cts.
 192 VENUS. A bright pink on white ground, set off by pure white throat. Pkt. 10 cts., ⅓ oz. 35 cts.
 Tall Varieties. 193 Rose. 194 Crimson. 195 White. 196 Yellow.
 197 Mixed. Pkt. 5 cts., ⅓ oz. 15 cts., oz. \$1.00.
 198 Grandiflorum. Giant varieties. Mixed, pkt. 10 cts., ¼ oz. 35 cts.
 199 Dwarf Varieties. Mixed colors. Pkt. 10 cts., ¼ oz. 35 cts.

AQUILEGIA

(Columbine)

Beautiful free flowering, hardy perennials, blooming throughout the spring and early summer. Of easy cultivation and will thrive in partial shade. 1 to 3 feet.

- 200 Single Mixed. Pkt. 10 cts., ¼ oz. 15 cts., oz. 40 cts.
 202 Double Mixed. Pkt. 10 cts., ¼ oz. 15 cts., oz. 40 cts.
 203 COERULEA (Rocky Mountain Columbine.) Splendid large, light blue. Pkt. 15 cts., ¼ oz. 75 cts.
 204 COERULEA HYBRIDA pl. fl. Long spurred, flowering hybrids in fine colors. Pkt. 25 cts.

AMPELOPSIS

- 182 VEITCHII (Boston Ivy; Japan Ivy). The well-known popular climbing vine, so often seen on walls of churches, schoolhouses, etc. Grows rapidly and clings to the smoothest surface. Ornamental the entire season, the dark green glossy leaves changing in the autumn to beautiful shades of scarlet, crimson and orange. Easily grown from seed. Entirely hardy except in the far North. Stands the dust and smoke of cities exceedingly well. Pkt. 10 cts., ¼ oz. 15 cts., oz. 50 cts.

ANCHUSA

H. P. Flowers borne on spikes of a variety of blue shades. Useful in shrubbery and perennial gardens.

- 185 CAPENSIS (Cape Forget-me not). Attractive annual with azure blue flowers. 1½ feet. Pkt. 10 cts.
 186 DROPMORE VARIETY. The bright blue Forget-Me-Not-like flowers are borne on graceful stems during the entire season and way late into the Fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. Pkt. 15 cts., ½ oz. 50 cts.

ANEMONE

(Windflower)

A very popular hardy garden perennial.

- 188 CORONARIA. Single, mixed colors. The well-known Poppy-flowered Anemone. 1 foot. Pkt. 5 cts.
 189 CORONARIA, ST. BRIGID. An improved strain, bearing larger and more brilliant flowers, and remaining in bloom longer. 1 foot. Pkt. 10 cts.



Sweet Alyssum, Fine for Edging

ARABIS

- 209 **ALPINA** (Rock Cross). A pretty, little hardy perennial, thriving in dry soil, and one of the earliest to bloom. Flowers white and deliciously fragrant; resembles Sweet Alyssum. The plant is covered with bloom and is excellent for rockwork and edgings. 6 inches. Pkt. 10 cts.

ARCTOTIS

- 210 **GRANDIS** (African Lilac Daisy). A beautiful annual from Africa, of luxuriant branching growth, bearing freely from July until frost, large, long-stemmed, daisy-like flowers, about 3 inches across; pure white on upper surface, reverse side of pale lilac. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.

ARISTOLOCHIA

- 215 **SIPHO** (Dutchman's Pipe). A hardy perennial vine of rapid growth, with large glossy heart-shaped leaves, bearing curious yellowish-brown blossoms, somewhat resembling a pipe. 15 to 20 feet. Pkt. 15 cts.

ASPARAGUS

- 216 **PLUMOSUS NANUS**. Beautiful house plants; the feathery foliage is unrivaled for cutting. Pkt. 25 cts., 100 seeds, \$1.00.
217 **SPRENGERI**. Excellent plants for table decoration. Pkt. 15 cts.

ASPERULA

- 220 **ODORATA** (Sweet Woodruff). A hardy perennial, blooming freely and continuously in rather moist soil and a partially shaded location. The flowers are white, but the plant is largely grown for its fragrant leaves and stems, which are used when dried for the same purposes as those of lavender. 1 foot. Pkt. 5 cts.

BALSAM

This old favorite annual, sometimes known as Lady's Slipper, has been continually improved for several years, the flowers of some strains now closely rivaling in size and beauty those of the Camellia. Requires rich soil, full exposure to the sun and plenty of water, to be grown to perfection, but is otherwise of easy culture. We offer seed of the most improved types, which will, with favorable conditions, produce a large proportion of double flowers. 2 feet.

- 225 **IMPROVED CAMELLIA-FLOWERED, MIXED COLORS**. Double flowers of the finest type and a wide range of beautiful colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.
226 **NEW DOUBLE WHITE** (Alba perfecta.) Extra fine. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.
227 **DOUBLE DARK RED**. Beautiful rich color. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.
228 **DOUBLE PINK** (PRINCE BISMARCK.) Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.
230 **CHOICE MIXED**. Double flowers of many colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 75 cts.

BALLOON VINE

- 235 A tender annual climber of rapid growth, bearing small, white flowers, followed by curious inflated seed-vessels, somewhat resembling a balloon. 10 to 15 feet. Pkt. 5 cts.

BARTONIA AUREA

- 236 Showy hardy annual of distinct character, its golden yellow flowers being freely produced; it grows well in partial shade but should not be crowded. Pkt. 10 cts.



Brachycome



Arctotis Grandis

BEANS, ORNAMENTAL VARIETIES

The Scarlet and White Runner Beans are deservedly popular as ornamental climbers, as but few plants grow so rapidly, and none is more easily grown. The former is largely grown alone for ornament, but all are very attractive. The beans of the White Runner are used in some localities as green shell beans; Scarlet are also edible, but seldom used. All should be treated as directed for Pole Beans.

- 240 **SCARLET RUNNER**. Pkt. 5 cts.
241 **WHITE RUNNER**. Pkt. 5 cts.

BELLIS PERENNIS (Double Daisy)

A perennial plant, bearing in early spring small, double white or rose-colored flowers. It succeeds best here in a rich, loamy soil, partially shaded. It is generally classed as hardy, but really needs a slight protection through the winter. 4 inches.
245 **Mixed Colors**. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.
246 **LONGFELLOW**. Dark Rose. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.
247 **SNOWBALL**. Pure white. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

BRACHYCOME (Swan River Daisy)

A free-flowering plant of dwarf, compact growth, bearing in great profusion beautiful single blue or white flowers. Effective as edgings or in beds, and suitable for rustic baskets or pot culture. Half-hardy annual. 1 foot.
250 **Mixed Colors**. Pkt. 5 cts.

BROWALLIA

A beautiful, free-blooming half-hardy annual. Seed may be sown in the open ground when warm, but preferably should be sown early in the house or hotbed, and, if possible, repotted once or twice. The plants will then bloom early and be covered throughout the summer with their beautiful blue and white flowers. For beds, borders or pots, few equal it. $1\frac{1}{2}$ feet.

- 251 **Blue and White**. Mixed. Pkt. 5 cts.

CALENDULA (Pot Marigold)

A very free-blooming hardy annual of easy culture. Grows well in nearly all soils. Flowers double, borne on stiff stems, and are cut to some extent, but the plant is more desirable for bedding. 1 to $1\frac{1}{2}$ feet.

- 255 **METEOR**. Yellow, striped orange. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
256 **ORANGE GIANT**. Extra large, orange. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.
257 **PRINCE OF ORANGE**. Orange, striped yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.
258 **SULPHUR CROWN**. Sulphur-yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.
259 **Mixed Varieties**. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

CALLIOPSIS

Well-known, profuse-flowering hardy annuals of the easiest culture. Numbers 260 and 263 represent the type more commonly known. Numbers 261 and 262 resemble in habit, foliage and flower the perennial type, generally known as Coreopsis.

- 260 **Mixed Colors**. $1\frac{1}{2}$ to 2 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.
261 **CORONATA MAXIMA**. Yellow; extra large. $1\frac{1}{2}$ feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
262 **GOLDEN WAVE** (Drummondii). Golden yellow with small dark center. $1\frac{1}{2}$ feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts.
263 **RAY OF GOLD**. New, yellow, with purplish brown center, 6 to 8 inches. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



CANTERBURY BELLS

(Campanula Medium)

Well-known, beautiful, hardy biennials. Like all of this class, may be sown where they are to remain any time after midsummer, or in beds in the spring for transplanting. The Calycanthema (Cup-and-Saucer) class is so named because of the broadening of the calyx into a saucer-shaped secondary flower. In permanent situations, plants should stand 18 to 20 inches apart. All varieties succeed best in a rich, rather sandy, well-drained soil.

- 267 **PRIZE MIXTURE.** A superb mixture of all classes, single, double, and cup and saucer. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts.
 268 **SINGLE, MIXED COLORS.** Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.
 269 **DOUBLE MIXED COLORS.** Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.
 272 **CALYCANTHEMA** (Cup-and-Saucer.) Mixed Colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts.
 273 **CALYCANTHEMA.** Blue. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts.
 274 **CALYCANTHEMA.** White. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts.

CANARY CREEPER

(Tropaeolum Canariensis)

- 275 A rapid-growing, half hardy annual climber, bearing curiously formed yellow flowers. Blooms until frost. Fine for shady places. 10 to 15 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts.

CANDYTUFT

Popular hardy annual, growing in any soil, requiring but little care, and by repeated sowings may be had in bloom all summer. 6 inches to 1 foot.

- 276 **CARMINE.** Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 277 **DARK CRIMSON** (Dunnett's.) Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 278 **EMPRESS.** Large trusses; pure white. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts., $\frac{1}{4}$ oz. 35 cts.
 279 **GIANT HYACINTH-FLOWERED.** Heads of immense size, resembling the hyacinth. White. Generally considered superior to Empress. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts., $\frac{1}{4}$ oz. 35 cts.



Calliopsis



Marguerite Giants

- 280 **MIXED COLORS.** Pkt. 5 cts., $\frac{1}{4}$ oz. 10 cts., oz. 35 cts.
 281 **QUEEN OF ITALY.** Of dwarf, bushy habit. Large pink flowers; fine, 6 inches. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.
 282 **DWARF HYBRIDS.** Mixed colors. Of dwarf habit, but flowers are large. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.
 283 **WHITE FRAGRANT.** Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts., oz. 60 cts.

CANNA

The Crozy Cannas are well-known for their dwarf growth and luxuriant foliage. The flowers are large and of most brilliant colors. Soak the seeds in warm water until they show signs of swelling, then sow in sandy loam and place in a hotbed.

- 284 **CROZY'S DWARF.** Large flowering varieties. Mixed. 3 to 4 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.
 285 **TALL, DARK-LEAVED VARIETIES.** Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

CARNATION

Well-known and very popular half-hardy perennial, which until the introduction of the Marguerite class, was mainly grown by the florist in the green house and occasionally by the amateur in pots in the house. The Marguerite class, including the original and later introductions of similar type, are treated as annuals, blooming in about four months from seed, which may be sown in the open ground early in the spring, usually by May 1, but preferably earlier in the house, and plants set in the open about the middle of May as this greatly lengthens the period of blooming. By cutting off the flower-stems early in the fall and potting the plants, they will bloom freely through the winter if kept in a cool room. The Carnation requires a rich soil, and, in such, the plants should stand about 12 inches apart.

- 286 **MARGUERITE IMPROVED SEMI-DWARF.** An improved strain, blooming four months after sowing. Flowers are larger, a greater proportion double and the variety of colors much greater than those of the original. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts.
 287 **MARGUERITE GIANTS.** Flower approaches in form, size, fragrance and beauty those grown by the florist. Great variety of color. Blooms four months after sowing. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
 288 **CHAUBAUD'S GIANT PERPETUAL.** A new strain, remarkable for its combination of earliness with the continuity of bloom and perfection of flowers of the perpetual type. Blooms in four or five months after sowing. Flowers large, a high percentage double. Deliciously fragrant and greatly varied in coloring. Pkt. 15 cts.
 290 **DWARF VIENNA.** Blooms early the second summer from seed. The hardiest sort, said to stand the winter with slight protection. Flowers large, double fragrant and of varied colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
 292 **DOUBLE FINE MIXED.** A choice strain of the regular type, blooming the second year from sowing. Most desirable for house culture. Pkt. 10 cts.

CINERERIA

(Hybrida Grandiflora)

- 294 **ROSS' PRIZE MIXTURE.** The plants are of compact growth, carrying extra large flower heads with flowerets of unusual size and substance. This strain includes the brightest and richest self colors as well as a good mixture of all colors. Pkt. 25 cts.

CASTOR BEAN

(Ricinus)

Well-known tender annual; tall, stately, majestic plants of very rapid growth, with palm-like leaves of glossy green, brown or bronze hue; very effective for lawns, planted singly or in groups. 6 to 15 feet.

- 295 **BORBONIENSIS.** Large, showy foliage of purplish hue. 15 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 296 **CAMBODGENSIS.** Stalks and stems nearly black; leaves large, of a deep bronze maroon. 6 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 297 **SANGUINEUS** (Tricolor.) Stalks blood-red, foliage, reddish bronze, with scarlet seed-pods. 6 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 298 **ZANZIBARENSIS.** A comparatively new class, with gigantic leaves, ranging in color from light green to deep bronze. 10 to 15 feet. Mixed varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 299 **GIBSON.** Large, dark-red leaves. 5 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
 300 **All Varieties Mixed.** Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.



COCKSCOMB

(*Celosia cristata*)

Popular free-blooming, half-hardy annual bearing flowers of comb-like form, the recently improved strains producing under best cultivation heads of enormous size. Grown either by itself or combined with other plants, the Cockscomb makes a striking and effective display. While seed may be, and more generally is, sown in the open ground, for best results it should be sown early in the house, and the young plants transplanted into small pots in which they should remain until they show signs of blooming, when they should be shifted to a permanent location. The Cockscomb requires good, rich soil, ample room and plenty of moisture to fully develop its flowers.

305 **GLASGOW PRIZE.** Crimson; dark foliage. 9 inches. Pkt. 10 cts., 1/8 oz. 30 cts.

306 **GOLDEN YELLOW.** 9 inches. Pkt. 10 cts., 1/8 oz. 30 cts.

307 **MIXED.** Pkt. 10 cts., 1/8 oz. 20 cts.

310 **DWARF, EXTRA-CHOICE MIXED.** Includes all the latest introductions and colors of the Cockscomb. Pkt. 10 cts., 1/8 oz. 50 cts.

FEATHERED CELOSIA

(*Celosia plumosa*)

Often used for winter bouquets, and for this purpose should be cut before fully ripe and dried in the house. The class requires the same treatment as the preceding. Half hardy annual. 1 to 1 1/2 feet.

- 311 **THOMPSON'S SUPERB.** Graceful, feathery plumes of rich crimson, which contrast beautifully with the purplish bronze foliage. Pkt. 5 cts., 1/8 oz. 15 cts., 1/4 oz. 25 cts.
- 312 **GOLDEN PLUME.** Golden Yellow. Pkt. 5 cts., 1/8 oz. 15 cts., 1/4 oz. 25 cts.
- 313 **THOMPSONIA MAGNIFICA.** A splendid strain, large plumes, ranging from clear yellow to darkest red. Pkt. 10 cts., 1/8 oz. 20 cts.
- 316 **CHOICE MIXED.** Pkt. 5 cts., 1/4 oz. 15 cts., oz. 40 cts.

CENTAUREA

To this family belong the well-known annuals, Bachelor's Button and Sweet Sultan, and also the plants known as Dusty Millers.

CYANUS (Bachelor's Button, or Cornflower). Popular hardy annual of the easiest culture, blooming quickly after seed is sown and for a considerable time if flowers are kept well cut. 2 feet.

- 317 **DOUBLE BLUE.** A selection of the old-fashioned Bachelor's Button, producing a large percentage of beautiful double blue flowers. Pkt. 10 cts., 1/8 oz. 25 cts.
- 318 **SINGLE and DOUBLE, MIXED.** Pkt. 5 cts., 1/4 oz. 15 cts., oz. 50 cts.
- 319 **Single White.** 320 **Single Lilac.** Each, pkt. 5 cts., 1/8 oz. 15 cts.
- 321 **MOSCHATA** (Common Sweet Sultan). Mixed colors. Pkt. 5 cts.
- 322 **SUAVEOLENS** (Yellow Sweet Sultan). Pkt. 5 cts.
- IMPERIALIS** (Royal Sweet Sultan). A new and greatly improved type of Sweet Sultan. Both the plants and flowers are much larger than the common. The flowers are borne on long, stiff stems, and will last for several days after cutting. They are very fragrant and colors delicate and beautiful.

323 **Blue.** 324 **White.** Each, pkt. 10 cts.

325 **Mixed Colors.** Pkt. 10 cts., 1/8 oz. 25 cts.

WHITE-LEAVED CENTAUERAS. (Dusty Miller.) Half-hardy perennials, which are grown annually from their seed for their foliage only. Used with other foliage and flowering bedding plants.

- 326 **CANDIDISSIMA.** Deeply cut, silvery white foliage, densely covered with white hairs. 1 foot. Pkt. 10 cts.
- 327 **GYMNOCARPA.** Silvery-white foliage; of graceful drooping habit. 1 1/2 feet. Pkt. 10 cts.
- 328 **MONTANA BLUE.** (Perennial Corn Flower.) Large violet-blue flowers. 2 feet. Pkt. 10 cts., 1/8 oz. 30 cts.

CHRYSANTHEMUM (Annual Varieties)

Free-flowering plants of branching habit, with rich, finely cut and very ornamental dark green foliage, bearing on long stems daisy-like flowers of bright and varied colorings. These colorings on the single varieties, are usually in distinct rings and look, on the flat petals, as though they were painted on. Both grow freely from seed, are of easy culture, very desirable for cutting, and are effective bedding plants. They should be given plenty of room, from 2 to 2 1/2 feet, and will bloom more freely on soil of medium fertility. Hardy annual. 1 to 1 1/2 feet.

- 330 **SINGLE (Painted Daisies.)** Mixed colors. Pkt. 5 cts., 1/4 oz. 15 cts., oz. 50 cts.
- 331 **EVENING STAE.** Covered with bright golden yellow single flowers. Pkt. 5 cts., 1/8 oz. 15 cts.
- 333 **DOUBLE (Marguerites.)** Mixed colors. Pkt. 5 cts., 1/8 oz. 15 cts.

CLARKIA

A pretty, hardy annual from California, much improved in recent years. Blooms profusely in either sun or partial shade. Colors: Rose, salmon-pink, purple and white, in mixture. 1 foot.

- 338 **Single and Double Mixed.** Pkt. 5 cts., 1/4 oz. 25 cts.

COBAEA

- 345 **SCANDENS.** (Climbing Cobaea.) A beautiful, rapid-growing, half-hardy perennial climber, blooming the first year from seed, bearing large bell-shaped flowers; at first green, but changing to a beautiful deep violet-blue. A clean porch climber, free



Cockscomb

from insects. Sow early in the house and pot the plants, as this greatly lengthens the period of bloom, and the plants will make a much greater growth. Seed germinates more readily if pushed into the ground edgewise and barely covered. 20 to 30 feet. Pkt. 10 cts.

COIX LACHRYMA

(Job's Tears)

- 347 An ornamental grass growing from 7 to 9 feet high. Large broad leaves bearing large, shiny seed. Pkt. 5 cts., 1/2 oz. 20 cts., oz. 35 cts.

COLEUS

Popular ornamental foliage plants, usually propagated by cuttings, but easily grown from seed, from which many new varieties may be expected, affording an interesting experiment to the amateur. Sow in heat in March or April and transplant to open ground about the first of June. For borders of geranium or canna beds and in carpet-bedding, very useful. Grows rapidly.

- 350 **Choice Hybrids, Mixed.** From a large collection; of greatly diverse shades and markings. Pkt. 10 cts.
- 351 **New Large-Leaved Varieties, Mixed.** Saved from new varieties with very large and richly variegated foliage. Pkt. 25 cts.

COLLINSIA

A free-flowering hardy annual from California, of easiest culture and great beauty. Seed preferably should be sown in the fall, as the plants will bloom much earlier than from seed sown in the spring. It may, however, be sown in the spring, if desired. 1 foot.

- 353 **Mixed Colors.** Pkt. 5 cts.

COLUMBINE. See Aquilegia.

CONVOLVULUS MINOR

(Dwarf Morning-Glory)

Half-hardy annual of trailing habit, growing about 1 foot high and covering a space of 2 feet, and bearing abundantly bell-shaped flowers similar to those of the tall sort. Flowers open on clear days about noon and remain open until evening, are pure white and of many shades of blue and red.

- 356 **Mixed Colors.** Pkt. 5 cts., 1/2 oz. 15 cts., oz. 25 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



BURBANK'S RAINBOW CORN

357 The stalks, including tassel, grow five to five and a half feet tall, and are clothed with many variously variegated leaves three inches wide and two feet long. The leaves (both on main stalks and suckers) are all superbly striped with broad bands of crimson, yellow, rose, white, and bronze. The small hardy seed can be planted early, and as it does not ripen until very late the plants present their rich tropical beauty for a long season. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

COREOPSIS

For Annual Varieties, see Calliopsis

358 **LANCEOLATA GRANDIFLORA.** A beautiful, hardy perennial, blooming profusely the first season until frost from seed sown early. The flowers are a rich, golden yellow, often 3 inches in diameter, borne on fine long stems and are very desirable for cutting. Of easiest culture, growing anywhere. Pkt. 5 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.40.

COSMOS

A rapid-growing, graceful plant, with beautiful, feathery foliage, bearing flowers which resemble the single dahlia; a very hardy annual of strong, vigorous habit, growing about 5 feet high in ordinary soil and often 8 feet in very rich. It is seldom given room enough; plants should not stand closer than $2\frac{1}{2}$ feet apart, and in rich soil, a greater distance. Cosmos makes a most desirable background for many other plants, its beautiful, finely cut foliage alone making it well worth the growing for this purpose. Its value, however, is greatly increased by its lovely flowers—white, pink, crimson or rosy purple—borne in great profusion on long stems, rising above the foliage in an especially graceful manner, equally graceful in appearance when arranged in a vase with sufficient foliage. For this purpose but few other flowers are so desirable, and none can be had so late in the season. Topping the plants when half-grown will induce earlier flowering, and they will also bloom earlier and more profusely if grown on rather light and not too rich soil.

359 **KLONDIKE.** Large, orange colored flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

360 **MAMMOTH PERFECTION.** Mixed colors. Flowers of mammoth size, rather late in flowering; seed should therefore be sown as early as possible in the house in March, or as the plant is especially hardy, in the open ground in a sheltered spot in April. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.

361 **DWARF EARLY-FLOWERING.** This, while flowers are not so large as the Mammoth, is growing in favor because of its earliness. If seed is sown in open ground in early spring,



Cosmos

plants will begin to bloom the last of July and continue until November, making it, therefore, especially desirable in northern latitudes. 4 feet. Mixed colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 30 cts.

362 **LARGE EARLY FLOWERING.** In the New Large Early-Flowering we have a strain which combines the desired features of good size and early production. The flowers are fully twice as large as the Early-Flowering, while the plant blooms as early. Crimson, Rose, and White Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

363 **CRIMSON RAY.** This distinct novelty originated from one plant which attracted marked attention from the fact that the flowers, while equally as large in diameter, showed a new departure in form, number and shape of the petals. The petals were narrow and fluted, separated in star-like form and of the most brilliant crimson color overlaid with velvet sheen. Pkt. 10 cts.

LADY LENOX. Long stemmed flowers of immense size, often measuring 5 inches across. Unsurpassed both for garden decoration and cut flowers. 6 to 7 feet.

364 Pink. Pkt. 15 cts., 364A White. Pkt. 15 cts.

CUCUMBER VINE

365 **WILD** (*Echinocystis lobata*.) One of the most rapid-growing of all annual climbers and blooms early in the season and continuously until fall. Of the easiest culture, growing wild in the West from self-sown seed. One of the most desirable annual climbers for quickly covering any unsightly object; growing 30 feet, and covered with small, white, fragrant flowers, followed by an abundance of prickly but ornamental seed-pods, it at all times presents a striking and effective appearance. Seed may be sown either in the fall or spring. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

ROSS' GIANT CYCLAMEN

Charming house plants, with beautiful foliage and rich colored, fragrant flowers. Universal favorites for winter and spring blooming. May be successfully raised from seed with a little care and patience. 366 Giant White. 367 Giant Dark Red. 368 Giant White with Red Eye. 369 Giant Mixed. Pkt. 50 cts.

CYPRESS VINE

(*Ipomoea Quamoclit*)

A popular climbing vine, with delicate fern-like foliage, bearing in abundance small, star-shaped, rose, scarlet or white flowers. Of easy culture. Half-hardy annual. 10 to 12 feet. 370 Mixed Colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.



Wild Cucumber



DAHLIA

The growing of the double varieties from seed is always more or less of an experiment, but fine flowers of the single type can be easily secured from seed the first season. If seed of the double sorts is sown in March and the young plants set in the open ground as soon as danger of frost is past, some of the plants, perhaps half, will bloom the first season. The single varieties, however, will all bloom the first season from seed sown in the open ground as late as the first week in June. An earlier planting is, however, preferable. Tender perennial. The tubers formed each season should be stored in a frost-proof cellar.

- 371 **SINGLE, MIXED COLORS.** Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts., oz. 75 cts.
- 372 **SPECIAL MIXTURE of Giant-Flowered Single Varieties.** Comprises seed from noted English and Holland growers, and includes the Giant Perfection, and Colossal strains, and Hornsvelt's Giant Hybrids. An unsurpassed mixture of the greatest possible diversity of colors. Pkt. 15 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.
- 373 **DOUBLE, LARGE-FLOWERED.** Mixed colors. Saved from the finest show varieties. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts., $\frac{1}{4}$ oz. 40 cts.

DAHLIA BULBS. See pages 48 and 49.

DAISY

It has always seemed to us unfortunate that the English Daisy (*Bellis perennis*) should have been given its common name, as we are quite sure that nearly every one instinctively associates with the terms 'daisy' or 'daisy-like,' flowers which resemble in form and habit our common field daisy. We therefore list under this head the famous Shasta Daisy and Michaelmas Daisies and call attention to other flowers often known as Daisies, but listed elsewhere under different names.

- 376 **AFRICAN GOLDEN** (*Dimorphoteca Aurantiaca*.) This new, very showy, annual plant is a valuable addition to the list of hardy annuals. When first exhibited it gained an Award of Merit at the great Temple Show, London, has been very favorably mentioned in the leading horticultural papers of this country and Europe, and all who have seen the plant in bloom praise it. A bed of these plants is remarkably effective and the flowers are excellent for cutting, while the plant is easily grown from seed sown in the open ground. The combination of beauty of flower, profusion and length of bloom and ease of culture should commend this plant to all who cultivate flowers and will, we are sure, make it a general favorite when once its merit is known. Pkt. 10 cts., 3 pkts. 25 cts.

BURBANK'S SHASTA DAISY. An extremely hardy perennial, thriving in all soils, blooming more freely each season, and,



Dahlia

when once established, for several months. Easily grown from seed and can be also increased by division of the root. The flowers are from 3 to 4 inches across, borne on very long, stiff, wiry stems, and remain in good condition for many days after being cut.

- 378 **ALASKA.** Pure glistening white. Pkt. 15 cts.
- 379 **BURBANK'S SELECTED HYBRIDS.** A mixture of seeds saved from the best seedlings, including some with double rows of petals. Pkt. 15 cts.
- MICHAELMAS DAISIES.** (Perennial Single Asters.) Beautiful and showy hardy perennials, easily grown from seed, blooming profusely in the autumn months, and the first season if seed is sown early.

- 381 **MIXED COLORS.** Pkt. 10 cts.
For other flowers known as Daisies, see Anthemis, Brachycome and Chrysanthemum.

DATURA

DATURA (Trumpet Flower.) Strong growing ornamental annual shrubs. Flowers trumpet shape, large and fragrant.

- 383 **FINEST MIXED.** Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

DELPHINIUM

(Larkspur)

Showy, hardy annuals and perennials, thriving in nearly all soils if well enriched and open to the sun. Seed of the annual sorts, though more generally sown in the spring, should preferably be sown in autumn, as plants commence blooming much earlier. Seed of the perennial kinds may be sown in the open ground from April to October, or inside in March, and if plants are kept growing well until June, and then set in the open border some will bloom well in the autumn months. The Larkspur are especially desirable because of their lovely blue shades, of which most gardens are in need. They should be planted in great masses in the garden. Also extremely effective in long rows bordering drives or walks through woods or natural parks, where shrubbery is available as background.

ANNUAL DELPHINIUMS

- 385 **DOUBLE DWARF ROCKET.** 1 foot. Mixed colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts.
- DOUBLE BRANCHING.** 387 Carmine. 388 Dark Blue. 389 Light Blue. 390 White. Pkt. 5 cts., $\frac{1}{8}$ oz. 20 cts.
- 391 **DOUBLE IMPERIAL BRANCHING.** Mixed colors. A superior strain. 2 feet. Pkt. 5 cts., $\frac{1}{8}$ oz. 20 cts.

PERENNIAL DELPHINIUMS

- 393 **ELATUM** (Bee Larkspur.) Flowers have curiously folded, hairy petals in the center, which give them a fancied resemblance to a bee. Rich shades of blue, with black center. $2\frac{1}{2}$ feet. Pkt. 5 cts., $\frac{1}{8}$ oz. 30 cts.
- 394 **FORMOSUM.** The large flowers are deep, rich blue, with white centers. $2\frac{1}{2}$ feet. Pkt. 5 cts., $\frac{1}{8}$ oz. 30 cts.
- 395 **SIBIRICUM HYBRIDUM.** Shades of blue. If sown early, will bloom in August. 2 feet. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.



Delphiniums



EVERYBODY KNOWS ROSS' SEED GROWS



DIANTHUS, PINKS

The following varieties of Dianthus, commonly known as Chinese and Japanese Pinks, have been, for a long time, very popular, and deservedly so. In diversity of rich and beautiful markings they have but few rivals and in ease of culture, freedom of bloom, and almost certain satisfactory results, they stand close to the Nasturtium. Hardy biennials, blooming the first year from seed. So easily grown from seed as to be rarely treated as biennials. Seed may be sown in the open ground any time in May. Plant 6 inches apart. Height 1 foot.

- 398 **DOUBLE CHINA** (*D. Chinensis* fl. pl.) Small, double flowers, borne in large clusters, of many colors, mostly with white edge. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
- 399 **HEDDEWIG'S DOUBLE** (*D. Heddewigi* fl. pl.) Japan Pinks. Very large, double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon almost black. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.
- 400 **SINGLE MIXED.** Large single flowers, of rich and varied coloring. Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts.
- 404 **DOUBLE IMPERIAL** (*D. imperialis* fl. pl.) A popular strain; fine, large, double flowers of many colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
- 405 **DOUBLE ROYAL, or KING'S PINKS** (*D. nobilis* fl. pl.) An ideal strain, the earliest to bloom, flowers of the largest size and of remarkably bright solid or self colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
- 406 **DOUBLE FRINGED JAPAN** (*D. laciniatus* fl. pl.) Large, double fringed flowers of rich and varied coloring. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.
- 407 **FIREBALL.** Of dwarf habit. Flowers globular, double, dark, blood-red. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
- 408 **SNOWBALL.** Very double, pure white. Excellent. Pkt. 10 cts.
- 410 **PURITY.** A new double clove-scented white Dianthus. Flowers, large and double, possessing a delicious fragrance. A decided acquisition to this large family of beautiful flowers. Pkt. 10 cts.
- 415 **WORCESTER MIXED.** All the above and other choice strains. Unsurpassed. Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts., oz. 75 cts.

HARDY PERENNIAL VARIETIES

Clove or Grass Pinks: *Dianthus plumarius*

Improved forms of the old well-known Clove Pink. They grow anywhere and bloom very profusely. Flowers of many pleasing colors and deliciously fragrant. Very useful for the hardy border.

- 416 **SINGLE** (Pheasant's Eye, Pink.) Mixed colors. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.
- 417 **DOUBLE and SEMI-DOUBLE.** Mixed colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
- 418 **FLORIST'S PERPETUAL PINK** (*D. semper-florens*.) Double and semi-double; large flowers; very fragrant and of a great diversity of colors. Blooms nearly all summer and if sown in March will generally bloom the first season. Pkt. 15 cts.



Dianthus

DIGITALIS

(Foxglove)

Favorite hardy plant bearing in June and July tall flower spikes. Of easy culture. Well suited for background to other plants, and for naturalizing in the edges of woods. Hardy biennial or perennial, 2½ to 3 feet.

- 423 **MACULATA SUPERBA** (Ivery's Spotted.) Choice strain of spotted varieties. Pkt. 10 cts.
- 424 **MONSTROSA.** Mixed colors. Monstrous flowers. Attractive. Pkt. 10 cts.
- 427 **PURPUREA.** (Common Foxglove.) Mixed colors. Pkt. 5 cts., $\frac{1}{8}$ oz. 25 cts.
- 428 **PURPUREA.** Rose. Pkt. 5 cts.
- 429 **PURPUREA.** White. Pkt. 5 cts.

DOLICHOS

(Hyacinth Bean)

A rapid-growing, hardy, annual climber, bearing all summer clusters of white or purplish blue flowers, followed by ornamental seed-pods. Sow in May where plants are to remain. 10 feet.

- 433 **Mixed Colors.** White and Purple. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

ESCHSCHOLTZIA

(California Poppy)

A very showy hardy annual, with beautiful, finely cut, glaucous foliage, bearing poppy-like flowers of bright colors. Of easy culture. Sow as early as soil can be worked, where plants are to remain, as they do not bear transplanting well. 1 foot.

- 439 **CALIFORNICA.** Yellow. Pkt. 5 cts.
- 440 **MANDARIN.** Inner side of petals orange; outside scarlet. Pkt. 5 cts.
- 441 **ROSE CARDINAL.** Large, white inside, rose outside. Pkt. 5 cts.
- 442 **MIXED COLORS.** Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
- 443 **ERECTA COMPACTA, ROSE QUEEN.** Rose-earmine. Pkt. 5 cts.



Eschscholtzia



EUPHORBIA

Ornamental foliage plant; easily grown from seed. Striking and effective appearance. Hardy annual.

452 **VARIEGATA** (Snow-on-the-Mountain.) Foliage veined and margined with white. 2 feet. Pkt. 10 cts.

EXACUM AFFINE

453 A beautiful annual bearing clusters of fragrant lilac flowers. Very useful for pot culture. 1 foot. Pkt. 25 cts.

FORGET-ME-NOT

(Myosotis)

Favorite hardy perennials, mostly treated as annuals, nearly all blooming the first season from seed sown early in the open ground. They succeed to a degree that warrants their cultivation in average soil and open situation, but thrive better in cool, moist soil, considerably shaded. 6 inches.

454 **ALPESTRIS** (Blue Alpine Forget-me-not.) Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.

456 **ELIZA FONEBET.** Large, sky blue, with yellow eye; much grown for cutting. Pkt. 5 cts., $\frac{1}{8}$ oz. 30 cts.

457 **PALUSTEIS** (True Forget-me-not.) Dark blue; blooms the first season. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.

458 **SEMPEFLORENS.** Blue, blooms all season. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.

459 **DISTINCTION** (Ever-flowering.) New; blooms in eight to ten weeks from sowing. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.

460 **RUTH FISCHER.** The largest and finest Forget-Me-Not; flowers measure from $\frac{1}{8}$ to $\frac{1}{2}$ inch across and are of a lovely sky-blue; of great value for forcing, pot culture or spring bedding. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

FOUR O'CLOCK

(Marvel of Peru)

A well-known favorite plant, bearing freely funnel-shaped, white, red and striped flowers, which open about four o'clock in the afternoon. Will grow anywhere. Plants should be given plenty of room; about 3 feet apart. Hardy annual. 2 feet.

465 **MIXED COLORS.** Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

FOXGLOVE. See Digitals

GAILLARDIA

(Blanket Flower)

ANNUAL VARIETIES

Very showy, free-blooming, hardy plants of easy culture. Seed germinates very slowly, and should be sown in the house in March. The flowers are very brilliant, borne on long stems. Fine for cutting. 2 feet.

470 **PICTA.** Single; mixed colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

471 **PICTA LORENZIANA.** Double; mixed colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

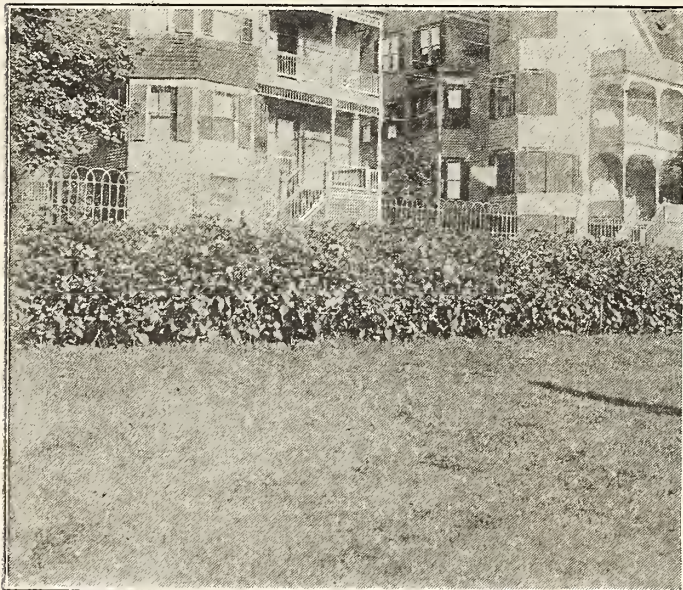
PERENNIAL GAILLARDIA

Hardy perennial Gaillardias thrive in nearly all soils and situations, requiring no protection and almost no care. Flowers large; with rich shades of scarlet, orange and crimson, the three often combined in one flower. Desirable for the perennial border. If sown early will bloom the first season. $1\frac{1}{4}$ to 2 feet.

478 **Newest Varieties. Mixed.** A splendid mixture; comprises all the colorings known. Pkt. 15 cts., $\frac{1}{8}$ oz. 50 cts.

GERANIUM

Well-known, half-hardy, greenhouse perennials, easily raised from seed. Seed sown in the fall or early winter will produce flowers in



A Hedge of Four O'Clocks



Gaillardia

June, while from that sown in March, plants will not bloom until September, and from seed sown in the open ground in May or June plants will bloom in mid-winter.

485 **ZONALE** (Fish, or Horseshoe Geranium.) Saved from the largest and finest varieties. Pkt. 10 cts.

GEUM

486 **MRS. BRADSHAW.** A very handsome, new variety, bearing immense double flowers of bright scarlet; a perpetual bloomer; fine for cutting. 2 feet. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.

GLOBE AMARANTH

(Gomphrena)

488 **MIXED COLORS.** A tender annual plant, bearing globe-shaped, ever-lasting flowers, often used, when dried, in winter bouquets. Blooms freely and is an excellent bedding plant. $1\frac{1}{2}$ feet. Pkt. 5 cts.

GLOXINIA

One of the most beautiful greenhouse perennials. May be successfully grown by the amateur. Give them a porous and well-enriched soil; a warm, moist atmosphere, and as soon as they begin to flower remove them to a cooler house, and afterwards dry them off gradually and keep them free from moisture till they again begin to grow. The seeds are small and should be sown on an even surface and but slightly covered.

489 **SPLENDID MIXED.** A mixture of all classes, unrivaled in richness of colors. Pkt. 25 cts.

GODETIA

A showy and beautiful hardy annual, bearing freely large, delicately shaded, satiny flowers; of easy culture, blooms best in rather poor soil. Seed may be sown in the open ground, or sown in the house in March and transplanted to the open ground as soon as danger from frost is past. The plants require plenty of room. Close planting weakens them.

490 **MIXED COLORS.** Includes all varieties and the latest introductions. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

GOURDS

Ornamental, tender annual climbers, with curiously formed and colored fruit; of very rapid growth; useful for covering unsightly objects. 10 to 20 feet.

491 **Apple-shaped.** Small, striped. Pkt. 5 cts.

492 **Dipper.** The fruit is of slender, neck-like form for two-thirds its length, widening at the apex in the form of a bowl. Sometimes used as a dipper. Pkt. 5 cts.

493 **DISH-CLOTH.** Fruit large and elongated, with a spongy net-work of tough fiber inside, which when dried is used by the Japanese to form the soles of sandals. It is also used like a sponge for bathing. Pkt. 5 cts.

494 **Egg-shaped.** Pkt. 5 cts.

495 **Hercules' Club.** 4 feet long. Pkt. 5 cts.

496 **Miniature Bottle-shaped.** Pkt. 5 cts.

497 **Orange-shaped.** Pkt. 5 cts.

498 **Pear-shaped.** Green, white-striped. Pkt. 5 cts.

499 **Serpent.** 5 feet long. Pkt. 5 cts.

500 **Mixed Varieties.** Small sorts. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



Heliotrope

- 515 **DOUBLE** (*H. monstrosum* fl. pl.) **MIXED COLORS.** Largest double flowers. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.

HELIOPSIS

- 516 **PITCHERIANA.** One of the best hardy perennials for dry soils, and its graceful flowers among the best for cutting. The plant commences to bloom early in season. The flowers are of a beautiful deep yellow, of great substance, and about 2 inches diameter. 3 feet. Pkt. 10 cts.

HELIOTROPE

A well-known and favorite plant, largely grown in pots, but thriving in the open border: usually grown from cuttings, but grows readily from seed, blooming the first season if sown early. Half-hardy perennial.

- 518 **Mixed Colors.** All shades. Pkt. 5 cts.

- 519 **Large-flowering.** Mixed colors. Heads of flowers nearly double the size of the old sorts. Pkt. 10 cts.

HEUCHERA

- 525 **SANGUINEA.** A fine, hardy perennial, bearing in graceful spikes rich crimson flowers. Useful for cutting, and the plant is useful in the mixed border. 1 foot. Pkt. 10 cts.

HIBISCUS

Vigorous-growing plants, producing large, handsome flowers, often six inches across. Very desirable for mixed beds or borders.

- 526 **AFRICANUS.** Hardy annual, yellow, 2 feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.



Helianthus

GYPSOPHILA

(Baby's Breath)

Very graceful, free-blooming plants of easiest culture. Flowers very small, borne in loose, graceful panicles. Very largely used in bouquets with other cut-flowers such as Sweet Peas, Roses, Carnations, etc. 2 feet.

- 505 **ELEGANS GRANDIFLORA ALBA.** White. An improved form of the annual Gypsophila. Grown by the acre for the London and Paris flower markets. Blooms quickly after sowing; several sowings should be made. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

- 506 **PANICULATA.** White. The variety more generally known as Baby's Breath. Hardy perennial. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

GREVILLEA

- 507 **ROBUSTA** (Silk Oak.) The graceful overgreen, fernlike foliage combines admirably with palms and other massive-leaved plants. Excellent for table decoration. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

HELENIUM

A very valuable hardy perennial, bearing in profusion in August and September, long stemmed single flowers; fine for cutting. Effective as a background.

- 510 **AUTUMNALE SUPERBUM.** Deep golden yellow. 5 to 6 feet. Pkt. 10 cts.

HELIANTHUS. See Sunflower.

HELICHRYSUM

(Straw Flower; Everlasting)

One of the best everlasting flowers and an effective bedding plant, succeeding in any well-enriched soil. If flowers are desired for winter use, they should be cut just as the buds are opening. Hardy annual. 2 feet.



Hollyhock

HOLLYHOCK

One of the oldest hardy favorites, greatly improved in recent years, flowers being large and of better form, and plant of more sturdy growth. While the Hollyhock delights in deep, rich soil, it must be dry and well-drained, or plants will not live through the winter. Though often sown later, seeds should be sown not later than June. As young plants bloom better and are hardier, seed should be sown every year. Hardy perennial. 5 to 7 feet.

Hollyhocks are most effective planted in long rows.

- 530 **CHATER'S FINEST MIXED.** Choicest double varieties, a large percentage of the flowers coming double. Pkt. 10 cts., $\frac{1}{8}$ oz. 35 cts., $\frac{1}{4}$ oz. 60 cts.

- 531 **Double. Mixed Colors.** Pkt. 5 cts., $\frac{1}{8}$ oz. 25 cts.

- 532 **ALLEGHENY.** Large, semi-double flowers, beautifully fringed, of silky texture and richly colored. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.

- 534 **EVERBLOOMING HYBRIDS** (Annual Hollyhocks.) Double. Semi-Double and Single. Mixed. A new strain, blooming the first season from seed. Plants from seed sown inside in March or April will bloom in July and those from seed sown in the open ground, in August, and, in both cases, continuously until frost if main stem is pinched off when 3 or 4 feet high. Pkt. 10 cts.

- CHATER'S DOUBLE.** 535 Maroon. 535A Pink. 536 Snow White. 536A Yellow. Pkt. 10 cts., $\frac{1}{8}$ oz. 35 cts.



HUMULUS. (Hop)

Rapid-growing climbers, with attractive foliage, especially valuable because seldom injured by insects or drought. The Japanese variety is a hardy annual, and among the best for quickly covering unsightly objects. The Lupulus, or Common Hop, is a hardy perennial, easily grown from seed, and when established, of very rapid growth. 10 to 20 feet.

537 **VARIEGATA.** Variegated foliage, green and white. Pkt. 5 cts.

HUNNEMANNIA

540 **FUMARIAEFOLIA** (Giant Tall Poppy, or Bush Eschscholtzia.) A valuable plant of the Poppy family, closely allied to the Eschscholtzia. A perennial, always treated as an annual, blooming by middle of July from seed sown early in May, and continually until frost. The large flowers are of a deep, rich yellow, borne on very long stems and last a remarkably long time after cutting. 2 feet. Pkt. 5 cts., 1/4 oz. 25 cts.

HYACINTH BEAN. See *Dolichos*.

IBERIS

543 **SEMPERVIRENS** (Perennial Candytuft.) A desirable hardy perennial of easiest culture. Dwarf spreading habit; suitable for rockeries. Flowers pure white. Pkt. 10 cts., 1/4 oz. 30 cts.

ICE PLANT

(*Mesembryanthemum*)

546 **CRYSTELLINUM.** A trailing plant, with succulent stems and leaves. Excellent for hanging baskets and rockwork. Tender annual. 9 inches. Pkt. 10 cts.

IPOMOEA

The Ipomoea family includes the well-known Morning-glory, the Moonflower and the Cypress Vine. Rapid-growing climbers of easiest culture; bloom earlier and more profusely on rather poor soil but of higher growth and more attractive foliage when grown on rich soil. Tender annuals. 15 to 30 feet.

550 **BONA NOX** (Evening Glory.) Beautiful, large, violet-blue flowers which open at night. Of extremely rapid growth. Pkt. 5 cts.

551 **COCCINAE** (Star Ipomoea.) Small scarlet flowers, borne in profusion. Pkt. 5 cts.

552 **SETOSA** (Brazilian Morning-Glory.) A handsome variety of luxuriant growth, having very large three-lobed leaves, the under side and stem being thickly set with small reddish hairs. Flowers are a pleasing rose, about 2 1/2 inches across, of delicate satiny texture and borne in clusters, but one or two in each cluster opening at once. Pkt. 10 cts.

553 **RUBRA COERULEA** (Heavenly Blue.) Large, heart-shaped leaves; flowers 4 to 5 inches across, borne in clusters and in such profusion as to nearly cover the foliage; bright sky-blue. Pkt. 10 cts.

KOCHIA

556 **TRICOPHYLLA** (Summer Cypress.) A very quick-growing annual; cultivated for its beautiful foliage, which is feathery and fine as moss. Through the summer this is bright green, but commences in early fall to gradually take on a red tinge, becoming entirely red before it dies. The brilliant coloring has given it its other two common names of Mexican Fire Plant and Burning Bush. It is often grown in rows as low hedges. Seed may be sown in the open ground about May 1. Hardy annual. 2 1/2 feet. Pkt. 10 cts., 1/4 oz. 20 cts.

KUDZU VINE. (Pueraria)

560 **THUNBERGIANA** (Jack-and-the-Beanstalk Vine.) A vine of wonderfully rapid growth, when well established growing to the great height of 40 to 50 feet. Leaves are of enormous size. One of the best for forming a screen for any purpose. In the North, the plant dies to the ground in the winter, but in the South becomes woody. Hardy perennial. Pkt. 10 cts.



Matricaria



Kochia

LARKSPUR. See *Delphinium*.

LANTANA

A favorite plant of rapid growth, blooming continually through the summer; desirable for the garden or house. Tender perennial. 2 feet.

562 **Mixed Colors.** Pkt. 5 cts.

LATHYRUS LATIFOLIUS

(Everlasting Sweet Pea)

An easily grown hardy perennial climber, bearing freely, flowers somewhat similar in form to the Sweet Pea. If grown on moist soil, will bloom nearly all summer. Colors: Reddish purple, rose and white. 6 to 8 feet.

570 **Mixed Colors.** Pkt. 5 cts., 1/2 oz. 20 cts., oz. 35 cts.

LAVENDER. (Lavendula Vera)

575 **VERA.** A well-known hardy perennial grown chiefly for its lasting fragrance. Pkt. 10 cts., 1/4 oz. 15 cts.

LAVATERA TREMESTRIS

Beautiful and effective hardy annual, covered during the entire summer with pretty and showy blossoms.

576 **Rose Pink.** 577 **White.** Pkt. 10c., 1/8 oz. 20 cts.

LINUM. (Scarlet Flax)

580 **GRANDIFLORUM** (Scarlet Flax). A hardy annual of slender habit, bearing in profusion brilliant scarlet-crimson flowers. An effective bedding plant. 1 foot. Pkt. 5 cts.

LOBELIA

Pretty little plants of easy culture, blooming profusely from June until frost. The dwarf varieties are useful for bedding and edgings, the trailing variety is excellent for hanging-baskets, vases and rock-work. Half-hardy annuals.

585 **CRYSTAL PALACE COMPACTA.** Rich blue flowers, dark foliage. Pkt. 10 cts.

586 **WHITE GEM.** White Dwarf; very profuse. Pkt. 10 cts.

587 **GRACILIS.** Light blue, trailing. Pkt. 5 cts.

588 **CARDINALIS.** Intense scarlet. 3 feet. Pkt. 10 cts.

LOVE-IN-A-MIST. See *Nigella*.

LUPIN

590 **Annual Varieties, Mixed.** Easily grown plants, with long, graceful spikes of pea-shaped flowers of various colors. 2 feet. Pkt. 5 cts., oz. 35 cts.

591 **Perennial Varieties, Mixed.** Hardy plants of easy culture, useful as a background in the perennial border. Mixed blue and white. 3 to 4 feet. Pkt. 5 cts., 1/2 oz. 30 cts., oz. 50 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



LYCHNIS

Perennial plant of easy culture, blooming the first season if sown early.
595 **CHALCEDONICA** (Burning Star). Bright scarlet flowers shaped like Maltese cross. Of fine color and thrifty growth; very effective in the perennial border. 2 feet. Pkt. 5 cts.

MARIGOLD

Favorite annual plant, blooming the entire summer; easily cultivated. The African varieties bear large yellow or orange flowers and the plants are usually tall. The French type is of dwarf habit and flowers are striped. Hardy annual, 1 to 3 feet.

- 600 **AFRICAN EL DORADO**. Flowers very large, extremely double, of various shades of yellow. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
601 **LEMON BALL**. The largest of all Marigolds, nearly ball-shaped; pure lemon-yellow. Pkt. 10 cts.
602 **ORANGE PRINCE**. Large, rich orange. Pkt. 10 cts.
603 **DOUBLE MIXED**. All shades of the African type. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
606 **FRENCH DWARF DOUBLE, GOLD STRIPED**. Deep brownish red, striped yellow. Pkt. 5 cts.
607 **FRENCH DOUBLE MIXED**. Shades of yellow and brown. 2 feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
608 **LEGION OF HONOR**. Single flower; golden yellow, with a large spot of crimson. Pkt. 5 cts.

MATHIOLA BICORNIS

(Night Scented Stock)

- 610 A hardy annual with purplish red flowers, giving forth a delightful fragrance, especially towards evening. 1 foot. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.



Marigold, Gold Striped

- 619 **MACHET**. Large, thick spikes of reddish cast, of dwarf habit, dark foliage. One of the best for pots. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 40 cts.
620 **PARSON'S WHITE**. Nearly white. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
621 **VICTORIA**. Of deep reddish cast. Pkt. 5 cts., $\frac{1}{4}$ oz. 10 cts., oz. 30 cts.
622 **GOLIATH**. Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
625 **MIXED VARIETIES**. The above and other varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

MIMULUS

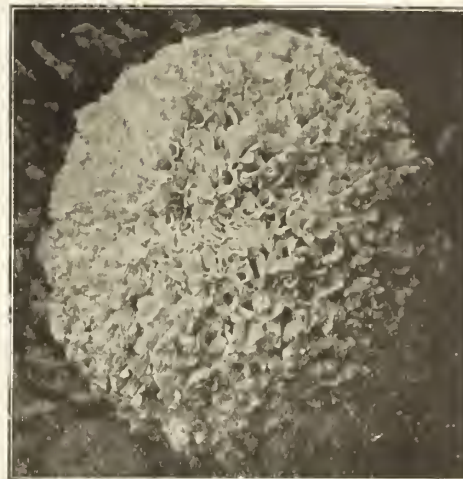
Showy, free-flowering plants of easy culture. Half-hardy perennials, blooming the first season by July, if started early in the house, and continually until October. Thrives best in moist soil and somewhat shaded location. 1 foot.

- 630 **TIGRINUS** (Monkey Flower). Handsome flowers with white, sulphur or yellow ground spotted with crimson, scarlet or pink. Pkt. 10 cts.
631 **MOSCHATUS** (Musk Plant). Small yellow flowers, musk-scented foliage, of trailing habit, excellent for hanging baskets. Pkt. 10 cts.

MOONFLOWER. (Ipomoea)

- 635 **GRANDIFLORA ALBA** (Ipomoea noctiflora). A very rapid-growing variety of Ipomoea, reaching the height of 30 feet. Large white flowers, open in the evening and on cloudy days. Germination is greatly assisted if the hard shell of the seed is cut. Plant about 1 inch deep, in moist soil, in a box or seed-pan, and set in a warm place. If soil is kept moist the seed will germinate in about two weeks. Set out the young plants as soon as all danger of frost is past, selecting a warm, sunny location. Pkt. 10 cts.

- 635B **PINK HYBRID MOONFLOWER**. In color, exquisite, soft lilac-pink. Of much easier cultivation than the preceding. Seeds germinate freely and plant commences to bloom profusely nearly as soon as the Morning Glory. Vines are of most rapid growth, and will cover as much or more space than any other Moonflower, having enormous leaves. Blooms very profusely and will succeed wherever the Morning Glory will. Pkt. 10 cts.



Marigold, Eldorado

MATRICARIA

(Feverfew)

Free-flowering annuals, useful for groups, borders, or pot culture. Fine for cut flowers. $1\frac{1}{2}$ feet.

- 611 **DOUBLE WHITE**. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
612 **DOUBLE YELLOW**. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

MIGNONETTE

(Reseda odorata)

A well-known and popular hardy annual, prized for its delightful fragrance. Seeds sown in autumn will bloom in early spring, and when sown the last of July will come into flower in a few weeks and continue until cut down by frost.

- 614 **GOLDEN MACHET**. Long, massive spikes, with fragrant, golden-yellow flowers. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts.
615 **GRANDIFLORA**. Improved, large-flowered. Sweet Mignonette. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
616 **DEFIANCE**. Large spikes and extra-large individual florets. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 75 cts.
617 **GIANT PYRAMIDAL** (Crimson Giant.) Of branching growth; large, of reddish cast. Pkt. 5 cts., $\frac{1}{4}$ oz. 10 cts., oz. 30 cts.
618 **GOLDEN QUEEN**. Golden yellow. Pkt. 5 cts., $\frac{1}{4}$ oz. 10 cts., oz. 30 cts.



Mignonette



MORNING GLORY

(Convolvulus major)

A well-known climbing vine of easiest culture. Hardy annual. 10 feet.
636 **MIXED COLORS.** Pkt. 5 cts., 1/2 oz. 10 cts., oz. 15 cts.

637 **JAPANESE GIANT MORNING-GLORIES.** The flowers of this strain are much larger than those of the common type, the range of colorings much greater, while the foliage is greatly varied and very attractive. The colors range from deepest purple through all shades of blue and red to pure white, in a great variety of beautiful blendings and markings. The vine is not so hardy nor so vigorous in its growth as the common type. Germination is assisted by soaking the seed in water for twenty-four hours before sowing. Tender annual. 8 feet. Pkt. 5 cts., 1/2 oz. 15 cts., oz. 25 cts.

MOURNING BEIDE See Scabiosa.

MUSK PLANT. See Mimulus.

MORNING GLORY, DWARF. See Convolvulus minor.

NASTURTIUM

No other annual plant combines in so great a degree, ease of culture, profusion of bloom, and grace and beauty of flowers as the Nasturtium. Also, it thrives on all soils except that which is very wet and succeeds on soil so poor that many other plants would fail to grow at all.

TALL NASTURTIUM

(Tropaeolum majus)

- 640 **ATEOPURPUREUM.** Rich, dark crimson.
- 641 **BUTTERFLY.** Light lemon-yellow, lower petals blotched with terracotta; upper petals marked bright red.
- 642 **CHAMELEON.** Varies in color and markings of flowers on the same plant.
- 644 **COCOA.** Bright scarlet.
- 645 **CROESUS.** Ground color light primrose to deep orange, upper petals blotched crimson; lower petals heavily fringed at throat and blotched brownish-red.
- 646 **DUNNETT'S ORANGE.** Bright orange, blotched red.
- 648 **EDWARD OTTO.** Brownish lilac.
- 650 **GOLDEN-LEAVED SCARLET.** Deep scarlet; light yellowish foliage.
- 652 **HEINEMANNI.** Chocolate-color.
- 654 **HEMISPHERICUM.** Straw-color blotched rose.
- 656 **KING THEODORE.** Deep crimson-maroon; dark foliage.
- 658 **LUTEUM.** Clear light yellow.
- 662 **PEARL.** Very pale yellow, nearest approach to white.
- 664 **REGALIANUM.** Deep crimson-violet.
- 666 **SALMON QUEEN** (Improved Vesuvius). Rich, but soft velvety salmon; dark foliage.
- 668 **SUNLIGHT.** Giant flower, rich golden yellow.
- 669 **TWILIGHT.** Faint salmon, or buff, heavily suffused with rosy salmon. Extra large.
- 670 **VON MOLTKE.** Bluish rose.

Each of the preceding varieties, pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., 1/4 lb. 60 cts.

672 **CHOICE MIXED.** Many varieties; a wide range of colors. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 40 cts., lb. \$1.40. See also, Worcester Mixed Tall Nasturtiums.

673 **GIANT-FLOWERED, TALL NASTURTIUMS, MIXED.** A choice selection of the largest flowered varieties and seedlings. Especially desirable for exhibition. Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 2 ozs. 40 cts., 1/4 lb. 65 cts.



Nasturtium

LOBB'S TALL NASTURTIUM

(Tropaeolum Lobbianum)

While both flowers and foliage are slightly smaller than those of the preceding common Nasturtium, this class is preferred by many because of the greater profusion of bloom and its more brilliant coloring.

- 675 **ASA GRAY.** Light yellow, almost white.
- 677 **BLACK PRINCE.** Very dark, nearly black. Foliage dark.
- 679 **BRILLIANT.** Dazzling scarlet.
- 680 **CARDINALE.** Rich, cardinal-red.
- 681 **FIREFLY.** Deep orange, spotted red.
- 683 **GIANT OF BATTLE.** Light yellow, spotted red.
- 685 **GOLDEN QUEEN.** Clear, golden yellow.
- 687 **KING OF THE BLACKS.** Deep, rich maroon. Dark foliage.
- 689 **LUCIFER.** Deep scarlet. Dark foliage.
- 691 **MONSIEUR COLMET.** Brownish purple.
- 693 **NAPOLEON III.** Golden yellow, spotted brown.
- 695 **REGINA.** Brilliant salmon, changing to deep cream.
- 697 **REDOLPH VIECHOW.** Rich, carmine-rose, beautiful. Price of each above, pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., 1/4 lb. 40 cts.
- 700 **LOBBIANUM.** Choicest mixed. A mixture of all varieties of this desirable class. Pkt. 5 cts., oz. 20 cts., 2 ozs. 30 cts., 1/4 lb. 50 cts.
- 701 **MADAME GUNTHER HYBRIDS.** A very choice strain of the Lobbianum type, unsurpassed for diversity and richness of colors, comprising many new combinations of colors not found in any other class. The foliage is mostly dark and forms a pleasing contrast to the richly colored flowers. Pkt. 5 cts., oz. 20 cts., 2 ozs. 30 cts., 1/4 lb. 50 cts.
- 702 **"IVY-LEAVED."** A new type of Tall Nasturtium. An entirely distinct type of this popular flower, having leaves which resemble those of the English Ivy and flowers with narrow petals set well apart, which give them a somewhat star-like appearance. In this mixture will be found nearly all colors of the regular types. Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 2 ozs. 40 cts., 1/4 lb. 75 cts.



Nasturtium



EVERYBODY KNOWS ROSS' SEED GROWS



Nasturtium, Queen of Tom Thumb

WORCESTER TALL MIXED

705 **WORCESTER MIXED TALL NASTURTIIUMS.** Our own mixture of many varieties; comprises selections from all classes, including the New Variegated-Leaved, or Queen, and choice mixtures from different growers. Of the greatest possible diversity of colors and types, but well-balanced, including larger proportions of the most desirable varieties. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

DWARF, OR TOM THUMB NASTURTIIUMS

While the flowers, not having as long stems, are perhaps not quite as desirable for cutting as those of the Tall Nasturtium, the Dwarf Nasturtium is not surpassed by any other annual plant for bedding, being of the easiest culture, thriving in nearly all soils and blooming profusely the entire season.

Except where otherwise noted, all of the following varieties at uniform price. Pkt. 5 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 60 cts.

- 710 **AURORA.** Bright primrose, veined carmine.
- 712 **BEAUTY.** Orange with scarlet markings.
- 714 **BRONZE-COLORED.** A very distinct and peculiar shade.
- 716 **CHAMELEON.** Flowers of different colors or markings on the same plant.
- 718 **CLOTH OF GOLD.** Brilliant scarlet, foliage golden yellow.
- 720 **COERULEUM ROSEUM.** Rose, with bluish tinge.
- 722 **CRYSTAL PALACE GEM.** Rich, sulphur-yellow, spotted carmine.
- 724 **EMPRESS OF INDIA.** Dark scarlet, foliage distinct, dark purplish green.
- 726 **GOLDEN KING.** Rich golden-yellow.
- 727 **GOLDEN MIDNIGHT.** Flowers intense, deep maroon, almost black; a striking contrast to the light green foliage. Pkt. 10 cts., oz. 25 cts.
- 728 **GOLDEN QUEEN.** Both flowers and foliage yellow.
- 730 **KING THEODORE.** Dark maroon; dark foliage.
- 732 **KING OF TOM THUMBS.** Rich scarlet, dark foliage.
- 734 **LADY BIRD.** Orange-yellow, suffused red; blotched brighter red at base of petals.
- 736 **PEARL.** Light cream, nearly white.
- 738 **PRINCE HENRY.** Light straw-yellow, spotted and suffused with rose.
- 742 **RUBY KING.** Ruby-red, dark leaved.
- 743 **SPOTTED KING.** Yellow, with brown spots.
- 743b **SNOW QUEEN.** A charming Lilliput. The flowers, when first opened, are of a yellowish tinge, which soon turns to white at the edges, and on the second day, the whole flower becomes pure white. An excellent bedding variety. Pkt. 10 cts.
- 744 **VESUVIUS.** Rich salmon-pink.
- 746 **CHOICE MIXED.** While not equal to the Worcester Mixed, of a wide range of colors and will give very pleasing results. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.
- 747 **WORCESTER MIXED DWARF NASTURTIIUMS.** Like the Worcester Tall Mixed this is of our own preparation and cannot be surpassed in diversity of colors and types; includes all the named varieties and classes here described and other choice mixtures of noted growers. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

NASTURTIIUM (Continued)

- 748 **QUEEN OF TOM THUMBS.** A new dwarf variety, with beautiful foliage variegated silvery white and light green. The plant does not grow over 9 inches high. The flowers are rich, brilliant crimson, rather small, but show to great advantage with the beautiful foliage as a background. One of the best, easily grown plants for an edging and very effective grown in masses. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.
- 749 **VARIEGATED LEAVED, or QUEEN OF TOM THUMBS, MIXED.** A mixture of all the varieties yet named and several unnamed seedlings of this new, distinct and charming type. Of various distinct colors; shades—light-primrose, deep scarlet, crimson and deep orange more or less veined or spotted with other colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
- 750 **DWARF GOLDEN-LEAVED NASTURTIIUM, IN MIXTURE.** A mixture of seven varieties, with yellow or golden leaves, including the new Golden Midnight, recently introduced. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

NEMESIA

A very valuable introduction—long blooming annual with large flowers varying from creamy white to deep orange and carmine. Most useful for bedding. $1\frac{1}{2}$ feet.

756 **STRUMOSA SUTTONI.** Pkt. 15 cts.

NEMOPHILA

(Love Grove)

An attractive hardy annual, bearing cup-shaped flowers about an inch in diameter, usually in shades of blue and white, often spotted with brown. Succeeds in cool, shaded places, in light, but rather moist loam. 6 inches.

757 **MIXED.** Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

NICOTIANA

(Flowering Tobacco)

Handsome, effective, half-hardy annuals, blooming profusely the entire season, and thriving in all soils. Seed may be sown early in the house, or in the open ground as soon as the soil is warm.

758 **AFFINIS.** White, star-like flowers, deliciously fragrant, expands fully in the evening. 2 to 3 feet. Pkt. 5 cts.

759 **SANDERAE.** Rose-carmine; remarkably profuse in bloom. Unlike the Affinis, is in full bloom during the day. 3 to $3\frac{1}{2}$ feet. Pkt. 10 cts.

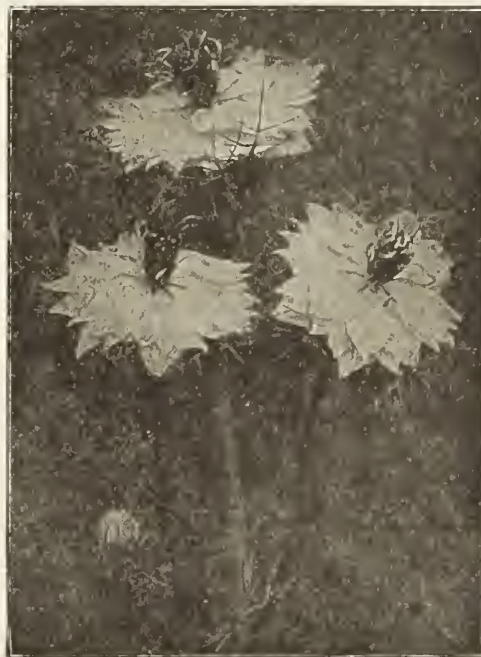
760 **SANDERAE HYBRIDS.** New Hybrids, comprising several distinct colors or shades. Pkt. 10 cts.

NIGELLA

(Love-in-a-Mist; Lady-in-Green; Devil-in-a-Bush)

A favorite hardy annual of the easiest culture. The blue or white flowers are half-hidden in the abundant finely cut foliage, hence its common names. 1 to $1\frac{1}{2}$ feet.

761 **Blue and White. Mixed.** Pkt. 5 cts.



Nigella



ORNAMENTAL GRASSES

- 764 **AGROSTIS NEBULOSA**. An airy and graceful annual Grass, grows 18 inches high and looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 5 cts.
- 765 **COIX LACHRYMA** (Job's Tears.) 9 feet. Large, broad leaves, large shiny seed. Hardy Annual. Pkt. 5 cts.
- 766 **EULALIA ZEBRINA** (Zebra Grass.) Dark green leaves crossed by yellowish white bars. Hardy Annual. Pkt. 5 cts.
- 767 **PENNISETUM LONGISTYLUM**. Graceful drooping heads. Excellent for bouquets. 2 feet. Hardy Annual. Pkt. 5 cts.
- 768 **PENNISETUM RUPELIANUM**. Foliage long and slender, the silvery plumes tinged with violet. 3 feet. Hardy Annual. Pkt. 5 cts.

PANSIES

Sow Pansy Seed in August or September, in fresh, moist soil, cover lightly and press seeds in with a board. Keep the bed moist by watering, and if the weather is hot and dry, by mulching with straw or by shading with cloth. The seeds will germinate in about two weeks, when the straw or cloth should be removed. In from four to six weeks, transplant to a slightly raised bed, setting the plants about 3 inches apart each way. Protect during winter with straw or leaves, and transplant to desired location early in the spring. Seed may be sown in the open ground in the spring as soon as soil can be fitted. A much earlier sowing can be made in a coldframe, but is not necessary. The ideal location is one somewhat sheltered from the wind, which has the morning sun and is shaded during the hottest part of the day. Seed sown in June in a cool place will make fine blooming plants by fall, when the weather is cool and the Pansy blooms best.

The seed which we offer of the choicest strains is of unsurpassed quality. Other strains at lower prices are of excellent quality, comprising every color and extra-large flowers.

Note that our packets of Pansy seeds are larger than usually offered, rarely containing less than 200 seeds, and more often 250 to 350.

- 770 **BUGNOT'S SUPERB BLOTCHED**. Rare shades of red, bronze or brown. Pkt. 25 cts., $\frac{1}{8}$ oz. 80 cts., $\frac{1}{4}$ oz. \$1.40, oz. \$5.
- 771 **CASSIER'S GIANT BLOTCHED**. A very carefully selected strain of five blotched varieties, remarkable for the enormous size of the flowers and the many rare combinations of shades and colors. Pkt. 25 cts., $\frac{1}{8}$ oz. 80 cts., $\frac{1}{4}$ oz. \$1.40, oz. \$5.
- 773 **TRIMARDEAU GIANTS**. Flowers of the largest size, with a dark blotch on the three lower petals. Pkt. 10 cts., $\frac{1}{8}$ oz. 35 cts., $\frac{1}{4}$ oz. 60 cts., oz. \$2.
- 774 **TRIMARDEAU PARISIAN, LARGE-STAINED**. A beautiful improved strain mostly white ground and five-blotched varieties. Pkt. 15 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.
- 776 **MADAME PERRET**. (Phenomena.) A new strain, distinctly beautiful pink, blotched or veined with rose, crimson or purple, the upper petals either self-colored with rich wine-red or deep purple, or with a margin of white. Pkt. 15 cts., $\frac{1}{8}$ oz. 50 cts., $\frac{1}{4}$ oz. 90 cts., oz. \$3.50.
- 778 **MASTERPIECE**. Ruffled Pansies. A new strain, having ruffled and curled petals, giving the flowers the appearance of being double. Colors rich and striking. Pkt. 20 cts., $\frac{1}{8}$ oz. 70 cts., $\frac{1}{4}$ oz. \$1.25, oz. \$4.50.
- 779 **WORCESTER GIANT MIXED**. Our own selection of choice large-flowered strains and varieties, including a proportion of all the preceding strains, the named separate sorts, and several choice strains from different growers. Wonderful colors, shades and markings, representing nearly every type of Pansy. Pkt. 15 cts., $\frac{1}{8}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.75.
- 780 **ROSS' SELECTED GIANT MIXED**. This is one of the finest strains known, the flowers being of perfect form and richest colors. A Giant Pansy, excellent for growing in the frame or out of doors. Pkt. 50 cts., 1-16 oz. \$1.00, $\frac{1}{8}$ oz. \$1.75, $\frac{1}{4}$ oz. \$3.00, oz. \$10.00.
- 782 **LARGE FLOWERED MIXED**. Our own mixture of varieties. The range of colorings is excellent, and the mixture will be found very satisfactory. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.75.
- 783 **ENGLISH PRIZE MIXED**. Includes many with face-like markings of various shades. Pkt. 5 cts., $\frac{1}{8}$ oz. 30 cts.
- 785 **CHOICE MIXED**. A mixture of many varieties. Pkt. 5 cts., $\frac{1}{8}$ oz. 25 cts., oz. \$1.75.
- 786 **GIANT ADONIS**. Splendid light blue, with white center and dark blotches.
- 788 **SKY-BLUE**. Ultramarine-blue, with dark center.
- 790 **FREYA** (Silver-edged). Very fine.
- 792 **GOLDEN QUEEN**. Pure yellow, $\frac{1}{8}$ oz. 50 cts.
- 794 **INDIGO-BLUE**. New rich shade.
- 796 **KING OF THE BLACKS**.
- 798 **LIGHT BLUE**.
- 800 **LORD BEACONSFIELD**. Violet, shading to white at the top.
- 802 **MAUVE QUEEN**. New, beautiful mauve. $\frac{1}{8}$ oz. 60 cts.
- 804 **PEACOCK**. Rich blue and purple, edged white; very striking.
- 806 **RUBY KING**. Superb reddish shades. $\frac{1}{8}$ oz. 50 cts.
- 808 **SNOWFLAKE**. Pure white.
- 810 **STRIPED**. Rich dark shades.
- 811 **YELLOW**. With large, black eye.
- Each of the 14 varieties, except where noted, pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.



PANSY



EVERYBODY KNOWS ROSS' SEED GROWS



PETUNIA

The Petunia is easily grown, and, blooming profusely all summer, is very popular for bedding. It thrives best in a warm, sunny location. Sow seed thinly where plants are to remain, in beds for transplanting, or, for early blooming, in the house in boxes. Almost invariably the weaker plants produce the finer flowers, especially of the choice strains.

- 812 **MIXED COLORS.** A fine mixture of the common small-flowered type. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.
 814 **FINEST MIXED.** A superior mixture. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.50.
 815 **STRIPED and BLOTCHED MIXED.** A choice strain. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts., $\frac{1}{4}$ oz. 40 cts.
 816 **HOWARD'S STAR.** Rich shade of maroon, with five-pointed star of white. Very pretty. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.
 817 **DWARF INIMITABLE, MIXED COLORS.** Dwarf, bushy plants, flowers mostly beautifully striped and blotched. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.
 818 **PETUNIA, ROSY MORN.** A single flower, color soft carmine pink. A profuse bloomer. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.
 822 **LARGE-FLOWERING, EXTRA CHOICE MIXED.** A superior mixture of large-flowered varieties with beautiful markings. Pkt. 20 cts.
 824 **GIANTS OF CALIFORNIA.** A superb strain. Flowers are of remarkable substance, enormous size and many are beautifully fringed. Of almost every conceivable shade; veined, striped or blotched with some contrasting shade. Plant of vigorous growth and blooms profusely. Pkt. 25 cts.
 825 **DOUBLE, LARGE-FLOWERING, CHOICE MIXED.** An excellent mixture comprising a large variety of colors, with a good percentage of double flowers. Pkt. 50 cts.

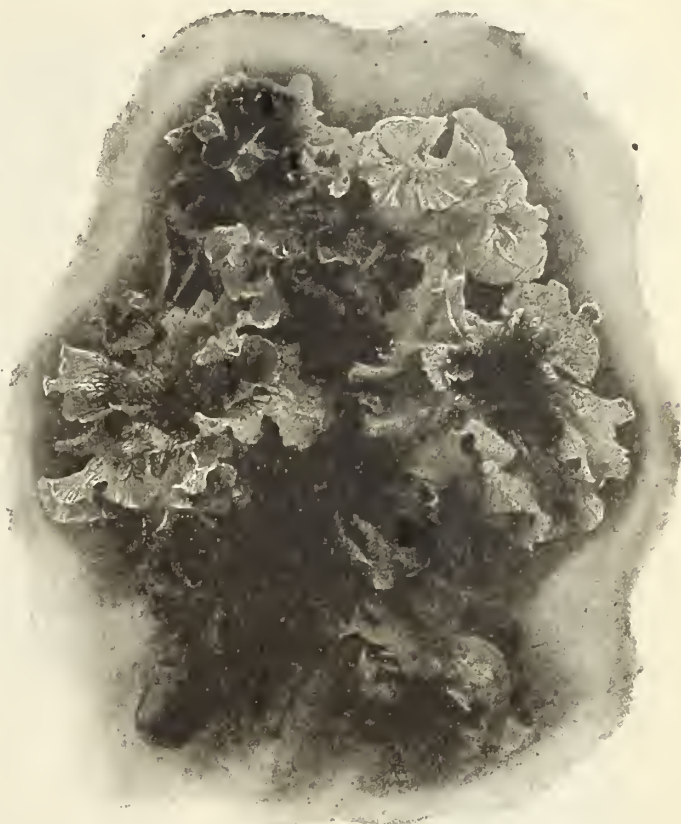
PHLOX DRUMMONDII

A well-known and very popular hardy annual, blooming profusely from July until frost, and of the easiest culture. Seed may be sown in the open ground early in the spring, either where the plants are desired to bloom, or in beds, and the young plants set in the desired location when 2 or 3 inches high. The tall sorts should stand about 12 inches apart, the dwarf about 6 inches. The plants will be more bushy and cover the ground better if pinched off while small.

- 830 **Mixed Colors.** Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
LARGE-FLOWERING. (Phlox Drummondii grandiflora.) A great improvement on the common type, both heads and florets being nearly twice as large.
 831 **Extra-Choice, Mixed Colors.** Our own mixture of the choicest and best strains from different growers. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.00.
 832 **BLACK WARRIOR.** Dark red. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
 833 **ISABELLINA.** Pure yellow. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
DWARF. (P. Drummondii nana compacta.) The plants of this class, growing only 6 to 8 inches high, are considered by many, very desirable for bedding.
 837 **FIREBALL.** Bright scarlet. Pkt. 10 cts.
 838 **SNOWBALL.** Pure white. Pkt. 10 cts.
 840 **Dwarf Mixed Colors.** All choice varieties. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.
 841 **LARGE-FLOWERING DWARF.** A new strain, combining the large heads and individual flowers of the Grandiflora type, with the dwarf compact habit of the Nana compacta.
Mixed Colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
 843 **STAR, or FRINGED.** (P. Drummondii Cuspidata). A distinct class with petals partly fringed, partly toothed, and some longer than others and regularly placed, give the flowers a star-like shape.
Mixed Colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
 845 **DOUBLE.** Double and semi-double flowers. A very desirable class for cutting.
Mixed Colors. Pkt. 10 cts.
 847 **HARDY PERENNIAL PHLOX.** Well-known, popular herbaceous, perennial, easily grown from seed.
Choicest Mixed. Saved from only the finest varieties. All colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.
PINK. See Dianthus.



SINGLE POPPY



PETUNIA

PLATYCODON

(Chinese Bellflower)

- 855 **GRANDIFLORUM.** One of the best hardy perennials, and one of the easiest grown, its propagation being more easily accomplished by seed than by division of the root. It forms large clumps and is well adapted to the hardy border. Blooms from July to September. The flowers are large steel-blue, rather more open than bell-shaped, 2 to 2½ feet. Pkt. 10 cts.

POLEMONIUM

(Jacob's Ladder)

- 857 **COERULEUM.** A hardy perennial, very popular in olden times. Easily grown from seed, preferably sown in the fall. Large heads of showy blue flowers from May to August. 2 feet. Pkt. 5 cts.

POPPY

Well-known hardy plants of quick growth, blooming profusely for a considerable time, thriving best on light, sandy loam. Seed of the annual varieties should be sown as early in the spring as possible and where desired to bloom as they do much better when they start to grow in cool weather and are very difficult to transplant. The seed is fine and should be only slightly covered. The period of bloom will be considerably prolonged if all the flowers are cut or not allowed to form seed-pods. They will last much longer if cut when just opening.

SINGLE ANNUAL POPPIES

- 860 **ADMIRAL.** Large, single, peony-flowered variety, glistening white, with broad band of brilliant scarlet at the top. Pkt. 10 cts.
 862 **DANERBROG or DANISH CROSS.** Brilliant scarlet with white spots at base of each petal. Pkt. 5 cts.
 863 **MEPHISTO.** Beautifully fringed, usually brilliant scarlet with black spots, but varies to rose and white. Pkt. 5 cts.
 864 **MISS SHERWOOD.** Fine large flower, satiny white with upper half delicate rose, a distinct and beautiful combination of unusual value. Excellent for cutting. Pkt. 10 cts.
 866 **THE BRIDE.** Large, pure white. Pkt. 5 cts.
 868 **TULIP-FLOWERED.** Bright scarlet, cup-shaped flower. Pkt. 5 cts.
 870 **SHIRLEY.** A lovely strain, comprising many delicate and rich shades, ranging from pure white through pink, rose, scarlet and red to the deepest crimson, the darker shades often having a margin of white. Many of the flowers have crimped or wavy petals, all are of fine silky texture, but of good substance, and not surpassed by any for cutting. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
 872 **SHIRLEY, SANTA ROSA STRAIN.** Acknowledged the best and most varied strain in existence. Unusually large flowers, remarkably clear colors, including new striped, new salmon shades and new bluish ones, all mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.
 874 **UMBROSUM.** Rich vermilion, with a spot of glistening black on each petal. Very showy. Pkt. 5 cts.



SHIRLEY POPPY

DOUBLE ANNUAL POPPIES

- 878 **CARNATION-FLOWERED.** Mixed. Fine, large, fringed flowers, of many colors. A popular class. Pkt. 5 cts., oz. 20 cts.
 880 **CARDINAL.** Very large, pure cardinal-red; deeply cut, dark green foliage; very attractive. Pkt. 5 cts.
 882 **GOLDEN POPPY.** Striking golden-yellow foliage, and flowers in different shades of red. Pkt. 10 cts.
 884 **PEONY-FLOWERED.** Mixed. Large, globular flowers resembling a peony. Pkt. 5 cts., oz. 20 cts.
 886 **SNOWDRIFT, or DOUBLE WHITE FRINGED.** Flowers from 3 to 4 inches across, very double and finely fringed. Pure white. Pkt. 5 cts.
 888 **WORCESTER MIXED.** Our own mixture of single and double annual varieties; all types and colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

HARDY PERENNIAL POPPIES

- ICELAND POPPIES.** Though hardy perennials, generally treated as annuals, blooming the first year, if seed is sown early. Of graceful habit, with fern-like foliage. They bloom profusely, and, if no seed-pods are allowed to form, until October.
 890 **White and Shades of Yellow and Orange.** Mixed. Pkt. 5 cts., $\frac{1}{8}$ oz. 20 cts.
ORIENTAL POPPIES. Extremely desirable for the hardy perennial border; gorgeous blooms. Easily grown from seed sown either in late fall, or early spring. They bloom the second spring from sowing, and, though their season is short—about three weeks in June they make a very effective display.
 892 **ORIENTALE.** Deep crimson flowers, with blotch of black on each petal. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
 893 **NEW ORIENTALE HYBRIDS.** Flowers of enormous size, sometimes 6 inches or more in diameter and of many novel colors. Pkt. 10 cts.

PORTULACA

Well-known tender annuals, blooming profusely all summer. Thrive in most soils and locations, but succeed best in a light, sandy soil and sunny spot, enduring any amount of dry weather. Form a dazzling display when sown in masses.
 894 **DOUBLE CHOICE MIXED.** Usually from fifty to sixty per cent of the flowers will come double. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts., $\frac{1}{4}$ oz. 65 cts.

- 895 **SINGLE SCARLET.** 896 **Rose.** 897 **White.** 898 **Yellow.** Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., $\frac{1}{2}$ oz. 35 cts.
 899 **SINGLE MIXED.** Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

PRIMULA

(Primrose)

PRIMULA SINENSIS (Chinese Primrose). A beautiful winter-blooming greenhouse perennial and one of the most pleasing for the home, blooming from December to spring. While its culture is not easy, it is by no means impossible for the amateur to raise fine, thrifty plants from seed. For early winter blooming seed should be sown the first week in April. Two sowings are advisable, but the second should not be later than the middle of May. Sow in well-drained shallow pans or boxes, using finely sifted loam, leaf mold and sand in equal parts. Cover lightly and water carefully, but well. Keep moist and in shade, and in a temperature of about 60 degrees. In summer keep in a cool, shady location, in winter in a north window in a temperature of 45 degrees.

- 900 **CHOICEST MIXED.** Comprises the finest fringed varieties. Pkt. 35 cts.
PRIMULA OBCONICA. Easily grown. Seed sown in May will produce blooming-plants by early fall. A beautiful pot plant and does well in the open ground in a cool, shady location if soil is strong, moist and rich. The treatment is about the same as of the Chinese Primrose except that the seeds should be sown in good porous soil, as they do not germinate well in leaf mold. The soil for final potting should be heavy and the plants should be kept in temperature of from 50 to 60 degrees.
 901 **GRANDIFLORA.** Blooms profusely; white, shading to lilac. Pkt. 10 cts.
 902 **PRIMULA STELLATA.** Star-like flowers borne in clusters, producing a large variety of colors; plants are very graceful and fine for winter flowering. Pkt. 35 cts.

HARDY PRIMROSES

Although known as hardy perennials, these require in this climate some protection. They may be placed in a cold-frame, or if protected with leaves covered by a box, they will live through our severest winters. They are among the best of the early-blooming plants.

ELATION (Polyanthus). Excellent for either pot or outdoor culture. Colors mostly shades of yellow, and red and yellow.

- 903 **CHOICEST MIXED.** Pkt. 10 cts.
 904 **VULGARIS.** True yellow English Primrose; canary yellow; fragrant. Pkt. 10 cts.

PYRETHRUM

Well-known hardy herbaceous perennials of easy culture.

- 910 **AUREUM** (Golden Feather.) Golden foliage; small, white flowers. Cultivated for its foliage alone and usually treated as an annual. 1 foot. Pkt. 5 cts.
 913 **ROSEUM HYBRIDUM.** Blooms freely from June to September, bearing large-flowering, daisy-like flowers ranging from light pink to deep red, with bright yellow center; excellent for cutting. Pkt. 10 cts.
ROSE CHAMPION. See *Agrostemma Coronaria*.
ROSE OF HEAVEN. See *Agrostemma Coeli*.



PRIMULA SINENSIS

- RICINUS.** See Castor Bean.
RESEDA. See Mignonette.

RHODANTHE

One of the finest everlasting flowers and an excellent plant for garden decoration. If flowers are gathered before they are fully expanded and dried in the shade, they will retain their color for years. Tender annual. 1 foot.
 920 **MIXED COLORS.** All shades of pink, rose, crimson and white. Pkt. 5 cts.

ROCKET (Sweet)

(*Hesperis Matronalis*)

Hardy perennial plant of easy culture, bearing clusters of purple or white fragrant flowers. $1\frac{1}{2}$ feet.
 921 **Mixed.** Pkt. 5 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



RUDBECKIA

(Cone Flower)

To this family belong the favorite plant, Golden Glow, and the well-known wild flower, Black-eyed Susan, or Yellow Ox-Eye Daisy. Both the annual and the perennials are of the easiest culture and grow in nearly all soils and situations, thriving alike in partial shade or fully exposed to the sun.

923 **BICOLOR SUPERBA**. Free-blooming annual of dense, bushy growth, bearing on long stems, large, bright yellow flowers with velvety brown spots at base of petals, and disc or cone of brown. Excellent for cutting. 2 feet. Pkt. 5 cts.

925 **NEUMANNI**. Large, golden yellow flowers, with maroon cone. Very showy; blooms for a long time. One of the best hardy perennials. 2 feet. Pkt. 15 cts.

926 **PURPUREA** (Echinacea; Giant Purple Cone-Flower). Large flowers, about 4 inches in diameter, reddish purple, with large cone of brown. Hardy perennial. 3 feet. Pkt. 15 cts.

SALPIGLOSSIS

(Velvet Flower; Painted Tongue)

Graceful, half-hardy annual, bearing from August to October, richly colored, funnel-shaped flowers, ranging from deepest purple to almost black and blue, through various shades of red, brown and yellow, to creamy white, usually marbled or veined with several contrasting colors. These are borne on long, slender stems, and are excellent for cutting, keeping well in water. Seed may be sown in the house the last of March or in the open ground in May. The plant succeeds best in deep, rich, rather light loam of medium moisture. 2 feet.

928 **GRANDIFLORA**. Choicest mixed. Extra-large-flowered strain. Pkt. 5 cts., 1/8 oz. 20 cts.

929 **EMPEROR**. Mixed colors. New type, with one thick leading stem; flowers large and distinct in their beautiful veinings of gold. Pkt. 10 cts., 1/8 oz. 30 cts.

SALVIA

(Scarlet Sage)

A mass of bloom from late summer until killed by frost; tender perennials, treated as an annual. Seed should be sown early indoors, or in hot bed and the plants set out when the weather has become warm.

935 **SPLENDENS GRANDIFLORA**. The well-known Scarlet Sage. 3 feet. Pkt. 10 cts., 1/8 oz. 50 cts.

936 **BONFIRE** (Clara Bedman). Compact bushy growth, blooms earlier and more profusely. Intense scarlet. 2 feet. Pkt. 10 cts., 1/8 oz. 50 cts.

937 **PATENS**. Rich, intense blue. 2 feet. Pkt. 25 cts.

938 **ZURICH**. One of the best of recent introduction; dwarf compact habit producing long, thick spikes of brilliant scarlet flowers blooming in July. Pkt. 20 cts.

SCABIOSA

(Mourning Bride)

The flowers are large and double with a great variety of colors. Of easy culture and blooms freely from July until hard frost. Hardy annual. 2 1/2 feet.

945 **LARGE-FLOWERED**. Mixed Colors. Fine, large, double flowers in a wide range of colors. Pkt. 5 cts., 1/4 oz. 15 cts.

947 **CAUCASICA**. Flowers large, pale lilac, about 3 inches in diameter, in bloom all summer. Pkt. 10 cts., 1/4 oz. 25 cts.

SCARLET RUNNER. See Beans—Ornamental varieties.

SCHIZANTHUS

(Butterfly, or Fringe Flower)

Beautiful, dainty, half-hardy annual. Seed may be sown in the open ground, or in the house, and the plants set in the garden in May. Should be planted in a sheltered place or the plants tied to stakes as the stems are very brittle and easily broken by strong winds. An excellent house-plant. 1 to 1 1/2 feet.

948 **GRANDIFLORUS HYBRIDUS**. Very fine new varieties. Pkt. 10 cts.

949 **WISSENONIENSIS**. Containing the most beautiful shades of white, pink, rose and crimson. Excellent for pot culture. Pkt. 25 cts.

SENSITIVE PLANT

(Mimosa Pudica)

950 **PUDICA**. Globular heads of small pink flowers. Grown chiefly for the peculiar habit of the plant, the leaves closing and drooping at the slightest touch. Tender annual. 1 1/2 feet. Pkt. 5 cts.



STOCK



Lower Flower 1-2 Actual Size.

SALPIGLOSSIS

SHAMROCK

950A True, small-leaved variety. Imported seed. Pkt. 10 cts., 1/4 oz. 40 cts.

SILENE

(Catchfly)

Profuse-flowering plants of easy culture. Seed of the annual sorts may be sown in the open ground early in the spring or in the fall if early bloom is desired.

951 **ARMERIA**. Mixed (Common Catchfly). Annual; blooms from July to September. White, pink and red. 1 1/2 feet. Pkt. 5 cts.

953 **PENDULA COMPACTA**. Single and Double. Mixed Colors. White, rose and red. Annual. Largely used for edgings. May to August. 6 inches. Pkt. 5 cts.

SNAPDRAGON. See Antirrhinum.

STOCK

(Gilliflower)

One of the most popular annuals, remarkable for its profusion of bloom, brilliancy and diversity of colors and lasting quality of its flowers. Plants from seed sown inside in March or April commence to bloom in July and those from seed sown in the open ground in about ten weeks, and continue until frost. Plants grown in rich soil and well cared for, produce 80 to 90 per cent of double flowers.

957 **BEAUTY OF NICE**. Mammoth flowering. Delicate flesh pink, extra large spike. Pkt. 10 cts., 1/8 oz. 75 cts.

958 **MONT BLANC**. Purest white. Pkt. 10 cts.

959 **MONT CARLO**. Canary yellow. Pkt. 10 cts.

961 **SUMMER NIGHT**. Rich deep blue. Pkt. 10 cts.

962 **CHOICEST MIXED**. Pkt. 10 cts.

967 **DRESDEN PERPETUAL**, or **BRANCHING** (Cut-and-Come-Again). A perpetual blooming class of branching habit; double, fragrant flowers. 2 feet.

CHOICEST MIXED. Pkt. 10 cts., 1-16 oz. 50 cts., 1/4 oz. 90 cts.

970 **LARGE-FLOWERED DOUBLE TEN WEEKS**. A very choice strain, producing a very large per cent of double flowers. Fine for bedding. 1/2 to 2 feet.

CHOICEST MIXED. Pkt. 10 cts., 1-16 oz. 40 cts., 1/4 oz. 75 cts.

971 **DOUBLE TEN WEEKS**, Mixed Colors. Seeds grown in the open ground instead of in pots, therefore cheaper. A good range of colors. 1 1/2 feet. Pkt. 5 cts., 1/4 oz. 25 cts., 1/4 oz. 40 cts.



The Spencer Waved or Giant Orchid-Flowered SWEET PEAS



Margaret Atlee

Sweet Peas succeed best when planted very early in the spring. The soil should be at least of medium fertility and well prepared. Sow thickly in drills about 5 inches deep, but cover with but 2 inches of soil, filling the drill when plants are a few inches high. Seed may be sown in either single or double rows, the latter being preferable because more economical of space, and requiring only half as much material for support of the vines. For this purpose, poultry netting is often used, but brush is better. The season of blooming will be prolonged if all flowers are cut and seed-pods not allowed to form. All at uniform prices except where noted. Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 1/4 lb. 90 cts., postpaid.

AMERICA SPENCER. White, covered with splashes and stripes of bright carmine.

APPLE-BLOSSOM SPENCER. Similar to the Apple Blossom of the older type; petals waved and crinkled; standard finely waved at edges; large and long-stemmed.

ASTA OHN. Large flowers, waved and fluted in the standard with very large wavy wings, lavender, suffused or tinted with mauve; superior to any other lavender.

AURORA SPENCER. Enormous flowers, both wings and standard much waved or fluted; ground creamy-white, beautifully flaked and mottled, rich orange-salmon.

BARBARA. An excellent sort for exhibition or table decoration; a large salmon-orange self and much superior to Earl Spencer as it retains its original color.

BEATRICE SPENCER. Buff, pink, and rose with deeper rose wings.

BLACK KNIGHT. Rich, deep maroon, large.

BLANCHE PERRY SPENCER. Closely resembles the variety of the older type. Large, well waved and crinkled.

CAPTAIN OF THE BLUES (Waverly.) Large and distinct. Bluish purple, shading to lilac at margin.

COUNTLESS SPENCER. The original of this type. Soft rose-pink, deepening somewhat at the edges.

DECORATOR. Of vigorous growth, the vines flower profusely, bearing on long stems three and frequently four beautifully waved flowers. The color is rich rose overlaid with terra-cotta, intensifying to deep bright orange at base of wings.

DUPLEX SPENCER. Produces uniformly large, waved flowers of true Spencer type. In color, both the standard and wings are a rich cream-pink, and practically all the petals give flowers with double or triple standards. On the sprays of four blooms each (of which there is a great number) the two lower flowers are double, while sometimes three of the flowers are double. The three-bloom sprays give the one or two lower flowers with twin or triple standards. Even the flowers which have only a single standard are magnificent, being all uniformly waved and crimped, both in standard and wings.

DAINTY SPENCER. White ground with beautiful picotee edge of rose pink.

DOBBIE'S CREAM. Rich primrose, perfect form, waved edge, usually four flowers on a stem.

ELFRIDA PEARSON. The flowers are of extra large size, great substance and lasting quality when cut. They are nicely disposed on extremely long stiff stems, invariably borne in fours. The vines bloom in wonderful profusion, and are of such vigorous growth that the flowers frequently come with

double standards. The color is a lovely pink throughout, the buds and flowers being tinted with salmon-pink.

FIERY CROSS. This sensational novelty was exhibited in 1916 and was received with great favor by the experts, and is now offered to the public as one of the leaders. The flowers are of good size and beautifully waved, but its greatest merit is its color, a brilliant fiery-scarlet, and its well-deserved name is truly descriptive. Pkt. 10 cts., 3 pkts. 25 cts.

FLORENCE NIGHTINGALE. Best soft lavender.

FLORA NORTON SPENCER. Bright blue, with a little deeper tint of purple than the original Flora Norton. Large, both standard and wings are wavy.

FLORENCE MORSE SPENCER. Delicate blush with pink edge; a beautiful flower of the largest size.

HELEN LEWIS (Orange Countess.) Standard crimson-orange, wings orange-rose.

ILLUMINATOR. A rich and charming new color, produced by a ground color of salmony-orange overlaid with bright cerise-pink, the effect being a glowing orange-scarlet; flowers uniformly large.

KING WHITE. The grandest of all white Sweet Peas, and of the most up-to-date Spencer form. It is much the largest white Spencer—the buds are of exceptional size before opening, even the seed pods are unusually large. The stems are long and stout, and bear practically always four blossoms. King White created a sensation wherever shown.

KING EDWARD SPENCER. Rich crimson-scarlet, large and of fine form; the best of this color.

LOVELY SPENCER. Soft shell-pink, shading to blush and almost white at the edges; large and wavy.

MARGARET ATLEE. The largest and finest Sweet Peas yet introduced. It is a rosy salmon-pink on a creamy buff ground; a rich, soft color, and extremely attractive, both as individual flowers and in the bunch. The standard is large, wavy and frequently double. The wings are also large, wavy, well set. There are usually four blossoms to a stem; well poised and graceful.

MRS. ROUTZAHN SPENCER. Ground buff or apricot, suffused with delicate pink or rose, with a decided rose edge.

NEW MARGARET MADISON. A large, perfect Spencer, of delicate azure blue, slightly tinted with mauve. The mauve tint shows only in the newly opened blossoms and the fully expanded flowers are clear light-lavender.

OTHELLO SPENCER. Of immense size with large drooping wings and large wavy standard; rich maroon, very dark.

PRIMROSE SPENCER. Not so large as some of this class, but especially desirable because of its color, a pronounced primrose or creamy yellow.

QUEEN VICTORIA SPENCER. Enormous flowers of deep Primrose, suffused with rose; of good form and substance and with the true Spencer wave to the three or four flowers on a stem.

ROYAL PURPLE. A new shade in Sweet Peas, a rich purple and almost a true royal purple. The same shade does not exist in the grandiflora type.

SENATOR SPENCER. The color is a varying combination of deep claret and chocolate, striped and flaked on a ground of light heliotrope. Very large.

STIRLING STENT. A rich, deep metallic salmon, suffused with orange. A beautiful Spencer, especially in artificial light, requiring shading to show true color.

THOMAS STEVENSON. The flowers are of largest size and true Spencer type. The standard is an intense flaming orange, while the wings are rosy carmine, shaded orange. Very vigorous.

VERMILLION BRILLIANT. A brilliant scarlet Spencer of splendid form. The standard is very bold and beautifully waved. On account of its brightness this is a very telling color and should be in every collection.

WEDGEWOOD. This is a unique shade of lovely light blue and completely eclipses the Flora Norton Spencer. The flowers are well waved in both standard and wings and are borne almost uniformly in sprays of four upon long, stout stems. Wedgewood is a color long sought for in Sweet Peas and has been eagerly welcomed by lovers of this beautiful annual.

WHITE SPENCER. Pure white. Of the largest size, has beautifully poised wings and the standard is erect and wavy. Stems often 12 inches long.

YARRAWA. A Sweet Pea novelty of sterling merit, coming from Australia. The flowers are waved, of large size, many of them being double. Color, a soft, bright rose-pink with a creamy base. One of the best for forcing under glass, and when grown out of doors blooms two weeks earlier than the Summer Spencers. Pkt. 10 cts., 3 pkts. 25 cts.

SWEET PEAS

GRANDIFLORA OR STANDARD VARIETIES

Sweet Peas succeed best when planted very early in the spring. The soil should be at least of medium fertility and well prepared. Sow thickly in drills about 5 inches deep, but cover with but 2 inches of soil, filling the drill when plants are a few inches high. Seed may be sown in either single or double rows, the latter being preferable because more economical of space, and requiring only half as much material for support of the vines. For this purpose poultry netting is often used, but brush is better. The season of blooming will be prolonged if all flowers are cut and seed-pods not allowed to form.

All of the following varieties at uniform price. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., ¼ lb. 40 cts., lb. \$1.25.

- 995 **AMERICA**. White, striped and splashed with earmine.
- 1005 **APPLE BLOSSOM**. Crimson-pink, shading lighter, wings white tinted pink.
- 1010 **AURORA**. White, striped and flaked orange-pink, very attractive.
- 1015 **BLACK KNIGHT**. Glossy, deep maroon; large, open form.
- 1020 **BLANCHE BURPEE**. White, popular but not equal to Dorothy Eckford.
- 1025 **BLANCHE FERRY**. The popular pink and white.
- 1035 **BOLTON'S PINK**. Pink, shaded rose.
- 1046 **CAPTAIN OF THE BLUES**. Purple, wings bright blue.
- 1038 **COUNTESS OF RADNOR**. A beautiful lavender of hooded form, nearly self colored.
- 1040 **DAINTY**. Clear white, edged with rose-pink.
- 1042 **DOBBIE'S MID BLUE**. Brightest blue of all.
- 1045 **DOROTHY ECKFORD**. The largest pure white of this class.
- 1055 **DUKE OF WESTMINSTER**. Standard clear purple; wings purple, tinted violet.
- 1060 **EARLIEST OF ALL**. Pink and white.
- 1061 **EARLIEST WHITE**. Pure white, very early.
- 1075 **EMILY HENDERSON**. Pure white; large, open form, petals of more substance than other white sorts; not so graceful in form as the hooded varieties; stems very thick. Vigorous grower and blooms profusely.
- 1080 **FLORA NORTON**. Almost true sky-blue.
- 1082 **FLOREST LAVENDER**. One of the best of this shade, long-stemmed, plant vigorous.
- 1110 **JEANNIE GORDON**. Standard bright rose, wings primrose, tinted light rose.
- 1120 **KATHERINE TRACY**. Flowers soft but brilliant pink; open form. The plants are vigorous, and give a profusion of flowers which continue of good size until the end of the season.
- 1125 **KING EDWARD VII**. Crimson-scarlet, large; the best of this color.
- 1135 **LADY GRISEL HAMILTON**. Soft lavender, tinted with mauve in standard.
- 1150 **LOTTIE ECKFORD**. White, edged lavender.
- 1155 **LOVELY**. Soft shell-pink, a beautiful flower.
- 1161 **MIDNIGHT, or BLACKBIRD**. Indigo-blue and violet. The darkest shade in sweet peas.
- 1170 **MISS WILMOT**. Bright orange-pink, veined with deeper shade.
- 1200 **MRS. WALTER WRIGHT**. Rosy-purple, self-colored.
- 1215 **OTHELLO**. Very dark maroon; large.
- 1220 **PRIMA DONNA**. The popular clear pink.
- 1230 **PRINCE OF WALES**. Rose-crimson, self-colored.
- 1234 **QUEEN ALEXANDRA**. Intense scarlet, does not burn in sun; large.
- 1235 **QUEEN VICTORIA**. Light primrose, self-colored; black-seeded.
- 1265 **STELLA MORSE**. Buff with tint of pink; when bunched has rich cream effect.
- 1275 **THE HON. MRS. E. KENYON**. Light primrose, self-colored; the best of this shade.
- 1290 **WHITE WONDER**. Pure white; many double flowers.

SWEET PEA MIXTURES

OUR BEST MIXED

- 1295 This mixture we make up ourselves of the choicest large-flowered varieties, including the best of the standard varieties, all of the varieties of the New Giant and Orchid Flowered, both of the Spence and Unwin Types and many of the unnamed Spencers. This mixture comprises all shades but is blended in carefully studied proportions and is the most desirable and popular mixture which can be produced. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., ¼ lb. 40 cts., lb. \$1.40.

CHOICE MIXED

- 1296 Also prepared by us; a well-blended mixture, comprising many of the large-flowering varieties of the older type, and Eckford's Large-Flowering Hybrids in great variety. The mixture will compare favorably with those generally offered at a higher price, and is surpassed only by mixtures which, like our Best Mixed, contain the new orchid-flowering varieties. Pkt. 5 cts., oz. 10 cts., ¼ lb. 35 cts., lb. \$1.15.



SPENCER VARIETIES AND SEEDLINGS MIXTURE

This is a superb mixture of Spencer or Giant Waved Flowered varieties. It contains not only the named kinds but many of the unnamed seedlings. It must be remembered that the Spencer sorts do not come as true as the old standard kinds, but a very large percentage will be of the Spencer type with a waved flower. This is the very best mixture that you can buy and is well worth the difference in price. Postpaid, pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts., lb. \$2.75.



STOKESIA CYANEA

(Cornflower Aster)

- 973 A beautiful, hardy perennial, growing about 2 feet high and bearing from August to hard frost, beautiful centaurea-like lavender-blue flowers, among the best for cutting. Pkt. 10 cts.
974 MIXED. Containing many new colors. Pkt. 10 cts.

SUNFLOWER HELIANTHUS

The Sunflower grows well in all soils if fully exposed to the sun. The taller varieties make excellent background to other plants.

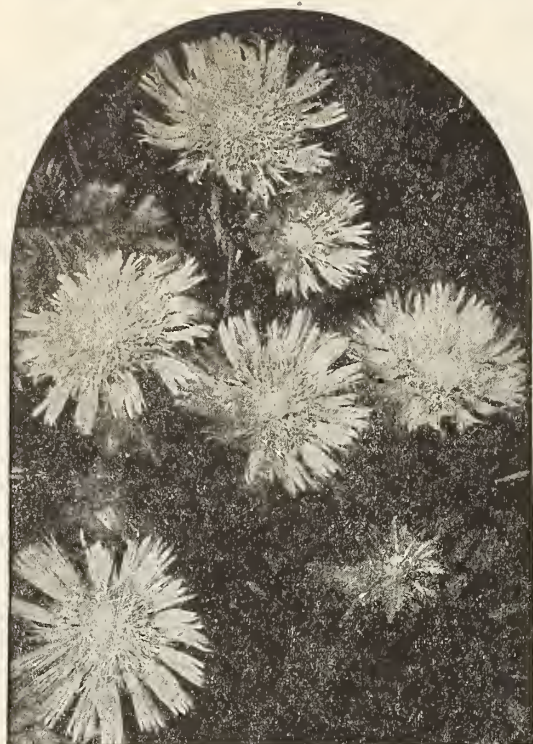
- 975 CUCUMERIFOLIUS (Miniature Sunflower). Small, single flower, rich yellow. 4 feet. Pkt. 5 cts., 1/2 oz. 15 cts.
976 GLOBOSUS FISTULOSUS (Globe or Dahlia Sunflower). Flowers large, double, of a rich saffron color; 6 feet. Pkt. 5 cts., oz. 30 cts.
980 NEW MINIATURE VARIETIES. Many new varieties of the miniature type, of various shades of yellow and creamy white. Some are large, some have twisted petals and some black centers. Pkt. 10 cts., 1/4 oz. 25 cts.
981 PERKEO. A distinct dwarf variety of the Miniature and growing only a foot high and blooming from the last of June until hard frost; is especially valuable for bedding. Pkt. 10 cts.
983 DOUBLE MINIATURE. Mixed. While the single flowers are more graceful, the double last longer when cut. Flowers small, double or semi-double and borne on long stems. Of various shades of yellow. 4 feet. Pkt. 10 cts.
984 DOUBLE CHRYSANTHEMUM-FLOWERED. Flowers larger than the preceding; full and double. Orange-yellow. 5 feet. Pkt. 5 cts., 1/2 oz. 15 cts.
986 RUSSIAN MAMMOTH. Very large. 7 to 9 feet. Pkt. 5 cts., oz. 10 cts.
988 MAXIMILIANA. Flowers clear yellow with several rows of large petals and full center; continues in bloom late in the autumn. Hardy perennial. 6 feet. Pkt. 10 cts., 1/4 oz. 25 cts.
SWEET SULTAN. See Centaurea.

SWEET WILLIAM

(Dianthus Barbatus)

A splendid hardy biennial with large trusses of sweet scented flowers produced in abundance. Seed should be sown at any time from early spring to the last of August, the late sown generally making as good plants as the early, and blooming to the full extent the following summer. 1 1/2 feet.

- 1300 SINGLE MIXED COLORS. Pkt. 5 cts., 1/4 oz. 15 cts.



STOKESIA CYANEA

- 1302 HOLBORN GLORY. A new strain of the auricular-eyed section; both the head and individual flowers are of the largest size and each of the latter shows a clear white eye; of an exceedingly wide range of colors. Pkt. 10 cts., 1/4 oz. 35 cts.
1308 DOUBLE, LARGEST-FLOWERED. Choicest mixed. A greatly improved strain. Pkt. 10 cts., 1/4 oz. 25 cts.
1309 SCARLET BEAUTY. A very effective, rich, deep scarlet variety. Pkt. 10 cts.
1310 EVERBLOOMING HYBRID (Dianthus latifolius atrococcineus fl. pl.) A variety which blooms the first season from seed. Color, intense crimson-scarlet; a really fine hardy plant of very easy culture. Pkt. 10 cts.

THUNBERGIA

- 1315 An annual vine, growing about 4 feet high, bearing medium-sized flowers, white, buff or orange, with dark eye. Largely used in hanging baskets or window boxes. Pkt. 5 cts.

TRITOMA

- 1317 TRITOMA (Red-Hot Poker Plant, or Flame Flower). H. P. Magnificent, large spikes of orange-red flowers, attaining a height of 4 feet, effective in single clumps or among shrubbery. Pkt. 10 cts.

VERBENA

Favorite annuals, thriving in nearly all soils. Useful for beds, borders, carpeting ground, and vases. Plants from seed sown in open ground in May will begin to bloom in August, and those sown inside in March will bloom from June until frost.

- 1320 MIXED COLORS. A good strain, all colors of old type. Pkt. 5 cts., 1/4 oz. 25 cts.
1321 MAMMOTH MIXED COLORS. Comprises the best large-flowering sorts of many colors. Pkt. 10 cts., 1/8 oz. 40 cts.
1322 SCARLET DEFIANCE. Large trusses of deep rich scarlet. Pkt. 10 cts.
1323 MAMMOTH WHITE. Truss and florets large; fragrant. Pkt. 10 cts.
1324 ITALIAN STRIPED. Large trusses and medium-sized flowers; each distinctly striped. Pkt. 10 cts.
1325 VERBENA, "BURBANK'S GIANT MAY-FLOWER." A selected strain from Luther Burbank, having a powerful fragrance like that of the Trailing Arbutus. The flowers are of the largest size and most beautiful colors. Pkt. 15 cts., 2 pkts. 25 cts.



VERBENAS



EVERYBODY KNOWS ROSS' SEED GROWS



VIOLA CORNUTA

(Tufted Pansies)

Flowers are not so large as the Pansy proper, but is very desirable as it blooms profusely, and is more quickly and easily grown. Seed sown in April will produce blooming plants in June that will be covered with flowers for a long time, and, if planted in cool, moist soil, partly shaded, nearly all summer.

1335 MIXED TUFTED PANSIES. Finest mixture of all colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.

WALLFLOWER

Half-hardy perennial. A universal favorite in England. Though a fine bedding plant, is not well-known in America. It is more often grown as a pot plant and for this purpose is well adapted. The flowers are very fragrant and usually of various shades of yellow, brown and reddish brown. Seed may be sown in the open ground in the spring when warm, and, if given about 12 inches of room, will make strong, stocky plants for winter bloom.

1340 SINGLE. Mixed Colors. Pkt. 5 cts.

1341 DOUBLE BRANCHING. Mixed Colors. Pkt. 10 cts.

1342 PARIS EXTRA-EARLY. A new single-flowered strain, blooming throughout the season, from spring-sown seed. Colors: light brown, brownish-red, yellow and creamy-white. Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

WILD CUCUMBER. See Cucumber Vine.

ZINNIA

(Youth and Old Age)

Old-time favorite annuals; easily grown from seed and transplanted readily. Showy flowers in profusion all summer. Fine for bedding, borders or among shrubbery.

1350 MIXED COLORS. An improved strain, comprising all colors and many large flowers. 2 feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

1351 Crimson. 1352 White. 1353 Scarlet. 1354 Yellow. Each, pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

1358 MAMMOTH, or GIANT-FLOWERED. Mixed Colors. Flowers of the largest size and of various colors. 2½ feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

1360 CURLED AND CRESTED. A pleasing variation from the regular type, the petals being twisted, curled and crested. All colors. 2½ feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

1362 ZEBRA. Striped flowers, the colors varying on each plant. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

1363 LILLIPUT (Pompon). Small, double flowers of many colors. Very profuse. 1½ feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.



ZINNIA

1364 HAAGEANNA fl. pl. (Mexican Zinnia). A distinct type with small pretty, double and semi-double flowers, which would hardly be recognized as Zinnias by those unfamiliar with the type. Of dwarf and slender growth, the plant is excellent for bedding, while the deep orange flowers are good for cutting. Pkt. 10 cts.

WILD FLOWER GARDEN MIXTURE

1368 A mixture of many free-blooming annuals, which, once sown, require little care, and sown in this way, almost none. In fact, with the exceptions of thinning out some plants where they grow too thickly and removing an occasional weed, the bed often looks better let alone, is more in keeping with its name, and more like some lovely spots where wild plants grow. The possibilities of this mixture are great, the different seasons of blooming insuring constant succession of flowers from early in the season until hard frost, and in the height of bloom, some new flower nearly every day. It affords a very easy and cheap way to quickly fill large areas of any unsightly place, and the results will surprise those who never saw a wild-flower garden: not only will the bed be attractive, but also will furnish many good flowers for cutting. To insure the greatest possible variety, the bed should be quite large. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Hardy Evergreens for Windbreak, Hedge and Lawn Planting

Strong, Heavy, Well Rooted Transplanted Stock for Express Shipment.

Hardy Outdoor Spruces, Pines, Firs, etc.

Safe Arrival Guaranteed to any Point in the U. S.

(Purchaser to pay transportation charges.)

Evergreen trees will bring a new beauty and charm to your home. There is unquestionably no better way of beautifying your place than surrounding it with beautiful Evergreens. As an ornamental tree Evergreens are unsurpassed. No other trees remain green through summer and winter; none are more beautiful. But while their value in this respect is great, Evergreens are most useful in other ways. They protect houses, stock and crops from wind, sun and snow. They conserve the soil's natural moisture. They form a substantial shelter and nesting place for the birds that rid your acres of worms and destructive insects. They are a source of snable timber for fence posts and other uses. Plant some Evergreens around your garden and just see how much difference there is in the temperature and moisture. You will find that you can grow flowers, fruits and vegetables that you never could before.

These varieties have been thoroughly tested and proven absolutely hardy and reliable and will grow successfully in all parts of the country. Send in your order now. Shipment will be made during March, April or May—depending on locality.

		Size.	5	10	100
*Norway Spruce (W)	1 to 1½	feet	\$1.50	\$3.00	\$25.00
*American Arbor Vitae (H)	1 to 1½	feet	1.75	3.50	30.00
*Colorado Douglas Fir (L)	1 to 1½	feet	1.50	3.00	25.00
Austrian Pine (W)	1 to 1½	feet	1.50	3.00	25.00
Balsam Fir (L)	1 to 1½	feet	2.75	5.50	50.00
Scotch Pine (W)	1 to 1½	feet	1.50	3.00	25.00
Concolor Silver Fir (L)	1 to 1½	feet	2.75	5.50	50.00
Ponderosa Pine (W)	1 to 1½	feet	1.50	3.00	25.00
Black Hill Spruce (W)	1 to 1½	feet	2.75	5.50	50.00
*Dwarf Mountain Pine (L)	10 to 12	inch	2.75	5.50	50.00
Jack Pine (W)	12 to 18	inch	1.50	3.00	25.00
Assorted Varieties	12 to 18	inch	1.50	3.00	25.00

Varieties suitable for Windbreaks are marked (W)—Hedges (H)—Lawn Planting (L).

*Starred sorts denote leaders.

50 of same variety and size at 100 rate.

Prices include careful packing for express shipment. Complete planting instructions and cultural directions will be furnished with each order.

Ready-to-Use Fertilizer for All Crops



The following are mixed under our own formulas and are sold under our own brands and because we have had such satisfactory returns from some of our largest buyers we have discontinued all other makes.

Agents wanted in every town in Massachusetts.

Large buyers supplied at agents' prices.

Ross Bros. Co.'s High Grade Potato and Vegetable Fertilizer

This is a strictly high-grade potato and vegetable fertilizer, to be used without the aid of stable manure, for potatoes, vegetables and roots of all kinds. It pays to use a liberal amount of fertilizer on any crop, especially potatoes. They should be planted on new land or land that has only been cultivated one year from sod.

GUARANTEED ANALYSIS—Per Cent.		Per Cent.	
Nitrogen	2.88	Avail Phos. Acid	8.00
Equiv. in Ammonia	3.50	Insol. Phos. Acid .....	.50
Sol. Phos. Acid	6.00	Total Phos. Acid	10.50
Rev. Phos. Acid	2.00	Potash (K ₂ O)	3.00

For all root-crops, such as potatoes, turnips, beets and others requiring potash. Prices: Ton \$86.50; 200 lbs. \$8.75; 100 lbs. \$4.50.

Ross Bros. Co.'s Special Potato and Vegetable Fertilizer

Same grade of goods as our High Grade Potato and Vegetable Fertilizer, only containing 1% Potash instead of 3% Potash. Price being very much lower on account of the high price of Potash. This is a good Potato and Vegetable Fertilizer for the Home Garden. Prices: Ton \$71.50; 200 lbs. \$7.25; 100 lbs. \$3.75.

Ross Bros. Co.'s Corn, Grass and Grain Fertilizer

A high-grade fertilizer especially recommended for corn, or seeding down to grass and grain. Apply one-third to one-half broadcast which should be thoroughly harrowed in, the balance in the hill at the time of planting. Corn and grass will stand much higher fertilizing than grain.

GUARANTEED ANALYSIS—Per Cent.		Per Cent.	
Nitrogen	2.88	Avail. Phos. Acid	8.00
Equiv. in Ammonia	3.50	Insol. Phos. Acid .....	.50
Sol. Phos. Acid	6.00	Total Phos. Acid	10.50
Rev. Phos. Acid	2.00	Potash (K ₂ O)	1.00
Prices: Ton \$71.50; 200 lbs. \$7.25; 100 lbs. \$3.75.			

Ross Bros. Co.'s Home Garden Fertilizer

A good, cheap fertilizer, but should be used in connection with stable manure when possible for all kinds of vegetables or for the kitchen garden, but if the land is not in good condition or stable manure cannot be had, use the high grade Potato and Vegetable.

The prices on mixed goods per ton are based on goods being shipped in 200 pound bags, as the government has ruled that no smaller bags than that size can be used, but now that the war is over this rule may be lifted. We have a limited number of small bags on hand from last year. We can furnish these as long as they last at the above price. After these are gone, unless the rules are modified, all small shipments will have to be made in paper bags.

GUARANTEED ANALYSIS—Per Cent.			Per Cent.
Nitrogen	1.65	Avail. Phos. Acid	8.00
Equiv. in Ammonia	2.00	Insol. Phos. Acid .....	.50
Sol. Phos. Acid	6.00	Total Phos. Acid	8.50
Rev. Phos. Acid	2.00		

Prices: Ton \$48.50; 200 lbs. \$5.00; 100 lbs. \$2.75; 50 lbs. \$1.50; 25 lbs. 90c.

AGRICULTURAL LIME. The agricultural colleges have been experimenting for some time to ascertain the influence lime has upon the soil when used with different crops, and the results show beyond all doubt that a large majority of our common vegetables need lime. This is especially true in regard to asparagus, beets, spinach, squash, lettuce, and onions. Lime should be applied at the rate of one ton per acre.

Price per ton in bags, \$8.50. Special price per ton in car lots.

NITRATE OF SODA. 95% purity; 19% ammonia. In original bags of about 275 pounds each. \$6.00 per 100 lbs.

PLAIN SUPERPHOSPHATE. 16 per cent. soluble and available phosphoric acid. In 200-lb. bags. Price per ton \$37.50, 200-lb. bag \$3.90.

FINE GROUND TANKAGE. 9 per cent. ammonia, 20 per cent. bone phosphate. Ask for price.

FINE GROUND NOVA SCOTIA PLASTER. White and fine. In 200-lb. bags. 200 lbs. \$3.00, ton \$25.00.

FINE GROUND BONE. 3 to 4 per cent. ammonia, 22.80 to 25.23 per cent. phosphoric acid. In 200-lb. bags. 100 lbs. \$3.50, ton \$60.00.

TOBACCO DUST. Fine, ground; for greenhouse use this is one of the best articles for dusting all kinds of plants that are affected with insects of any kind. 5 lbs. 35 cts., 50 lbs. \$1.50, 100 lbs. \$2.75.

DRY GROUND FISH. 9 to 10 per cent. ammonia, 25 to 30 per cent. bone phosphate. 100 lbs. \$6.00, ton \$110.00.

CANADA HARDWOOD ASHES. We handle these in large quantities and can quote carload price delivered at any freight station in New England. f. o. b. Worcester, \$28.50, 100 lbs. \$1.75.

Car lots, in bulk, about 25 ton, \$22.50 per ton. Delivered at all through points.

ALPHANO HUMUS

This material has no odor. No weed seed. No contagious disease germs. Expressly recommended for composting for leveling up lawns and greens on golf links.

Alphano is inoculated with bacteria for the legumes such as alfalfa, clovers, soy beans and peas, etc. It is sweet and very finely granulated. We expect to be able to get these goods this season.

Price: 100 lbs. \$1.65, per ton \$24.50.

Special prices in carload lots for private estates and country clubs.



EVERYBODY KNOWS ROSS' SEED GROWS



We Can Furnish You Anything to Make the Grass Green on Your Lawn

IF YOU WANT A RICH, GREEN, VELVETY LAWN YOU MUST FEED IT



Our Worcester Special Odorless Lawn Dressing is of Special Interest to Owners
or Those in Charge of Private Estates, Golf Links, Parks, Etc.

WORCESTER SPECIAL LAWN DRESSING

If you want a fertilizer that starts the grass green early in the Spring and keeps it green throughout the entire season, use Worcester Special Lawn Dressing. This manure is not only a complete high grade fertilizer but is an insecticide as well. We mix with every ton a quantity Tobacco Dust which in itself is not only a fertilizer but is an insecticide and will drive the grubs and other injurious insects from your lawn. Your lawn will have that deep, rich, velvety look throughout the entire season if you use this fertilizer.

A Rich, Velvety Lawn is more than a piece of grass. Everyone likes a lawn that is green early in the Spring and remains so until the snow covers it early in the fall. This requires a good fertilizer, one that lasts throughout the season. After your lawn has been properly graded, some complete fertilizer is absolutely necessary.

The beauty of any lawn depends largely upon two things, Good Seed and Fertilizer. The old practice of top-dressing lawns with a stable manure is objectionable on account of unsightliness and disagreeable odors. Such manure usually contains large quantities of Weed Seed, which will ruin the best lawn that was ever made.

Price: 25 lbs. \$1.10; 50 lbs. \$2.00; 100 lbs. \$3.75; 200 lbs. \$7.25; ton \$71.50.

PURE FINE GROUND FERTILIZER BONE

This bone is ground very fine and is an excellent fertilizer for almost any purpose. It is especially adapted for making new lawns, for trees, shrubs and for composting for the greenhouse.

Price: 5 lbs. \$0.25; 25 lbs. \$1.00; 100 lbs. \$3.50; 2000 lbs. \$60.00.

HARDWOOD ASHES

Are excellent top dressing for grass, pasture and shrubs. They contain a large percentage of lime, which sweetens the soil. They are nature's own gift. Usually contain from 4% to 6% potash.

FINE GROUND TOBACCO DUST FOR DUSTING

Low-growing shrubs and plants to prevent insects from destroying them.

Prices: 5 lbs. \$0.35; 25 lbs. \$0.80; 100 lbs. \$2.75.

We do not sell less than the above amounts.

ARMOUR'S IMPORTED SHEEP FERTILIZER

Guaranteed Analysis:

Nitrogen	1.65%
Equiv. to Ammonia	2.00%
Total Phos. Acid	1.00%
Potash Sol. in water	3.25%

This is a pure Sheep Manure imported from South America and runs very high in Potash. Its effect is immediate and much more lasting than Guano or any commercial fertilizer. It is the best manure for mixing with the soil, for greenhouse use, also for making liquid manure. This manure is thoroughly dried and contains but very little moisture but runs very high in plant food.

While the manufacturers guarantee but 3¼% Potash, but reports from our experiment station shows that it runs very much higher than that. As potash is necessary for growing all vegetable crops, it makes a good substitute for fertilizer. We have sold it in very large quantities for that purpose during the last season.

Price: 5 lbs. \$0.25; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 2000 lbs. \$50.00.

For mixing with soil, use one part manure to six of soil. For making a liquid, (Sheep's Head Brand Domestic Sheep Manure grade usually sold) one pound to five gallons of water. This can be used in perfect safety.

NITRATE OF SODA

Imported from Chile. It usually contains 96% nitrate of soda and above 19% ammonia. It should be used with caution for top dressing and pasture, also for forcing garden crops, such as Spinach, Tomatoes, etc.

Price: 5 lbs. 50 cts; 25 lbs. \$1.75; 100 lbs. \$6.00. *

LAND PLASTER

It is usually mixed with Paris Green and other insecticides which are too strong to use whole.

Price: 5 lbs. \$0.20; 25 lbs. \$0.50; 100 lbs. \$1.60.

HOME GARDEN FERTILIZER

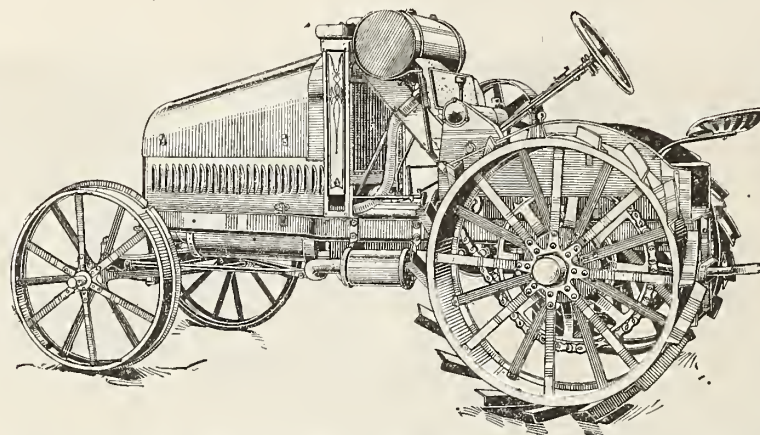
See preceding page for description.

Price: 5 lbs. 25 cts.; 25 lbs. 90 cts.; 50 lbs. \$1.50; 100 lbs. \$2.75; 200 lbs. \$5.00.



The International 8-16-H. P. Kerosene Tractor

No. 1



It has taken several years to build and perfect a light weight substantially built, 4-cylinder tractor, that would measure up to the International standard, but this tractor has passed successfully through the long and rigid test, not only at the factory, but in the field in actual work under different conditions and in different sections of the country. In placing it on the market, the manufacturers are doing so in perfect confidence that it will measure up to the high standard which they set on all their out-put.

The question as to whether the farm work of this country is to be done, in the future, by horses or motors, has been proven during the past few years. A horse consumes when it is not working, a motor ceases to consume when it stops working, and as a tractor will do the work of several horses, the expense of plowing, harrowing and harvesting, is much less by motor power than by horse power. For often times one, two or three days' work with the tractor will do all the work that is necessary at that particular season and as soon as it is run under cover the expense stops, while horses keep consuming not only six days in the week but seven.

The question then to decide is what tractor to buy? For there are a great many on the market. A good writer can make up a good story on any one of them, but when put to use in the field, there is a great difference in actual results.

The International Harvester Company is so well known that any one can buy their implements with perfect confidence that they will not only be made of first-class material but that they will stand behind every implement that they put out.

Thousands of satisfied customers will testify that the above is true.

Only the highest grade of materials are used in this tractor. It is backed by several years of actual experience of manufacturing tractors and these people no doubt have at their command the greatest amount of high grade material that it is possible to get.

The arrangement of this is such that it is easy to get at every bearing with the least possible effort, and all the parts are readily accessible. When the hood is raised, the engine, carburetor, lubricator, governor, ignition and cooling systems are all easy to get at.

This tractor is not only built for field work but it is also built for belt work for operating any stationary machine, such as cutting ensilage, threshing, sawing wood, or any other farm work where power of any kind is required.

The tractor that is built to do field work as well as work at the Draw Bar can be used to advantage on nearly every farm.

A complete catalogue describing all of the working parts of this tractor will be mailed on application and by careful study of this, ought to convince any fair-minded person that they take no chances when buying an International 8-16 or International Titan Tractor.

John Deere Light Tractor Two or Three Bottom Plow

This plow is especially adapted for all Standard Light Tractors; hitch and trip levers adjustable to suit any tractor.

The bottom of any plow is what does the work, all of the rest of the plow is built to enable the plow to do the work required of it.

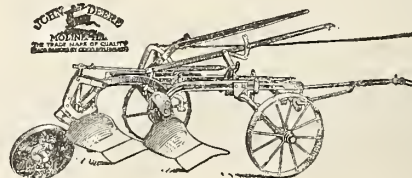
The bottom or controlling rope raises the plow and another pull and the plow has entered the ground.

The tractor does all the work of lifting.

This plow has extra heavy beams of steel which prevent dragging the plow, as well as balancing for all conditions.

The rear wheel is held in close boxes and it is called an adaptable affair, which makes it one of the best plows for tractor use.

No. 2



Price 2-12 inch Bottom Plows with Jointers.....\$177.50
Price 2-12 with Rolling Colters 180.00

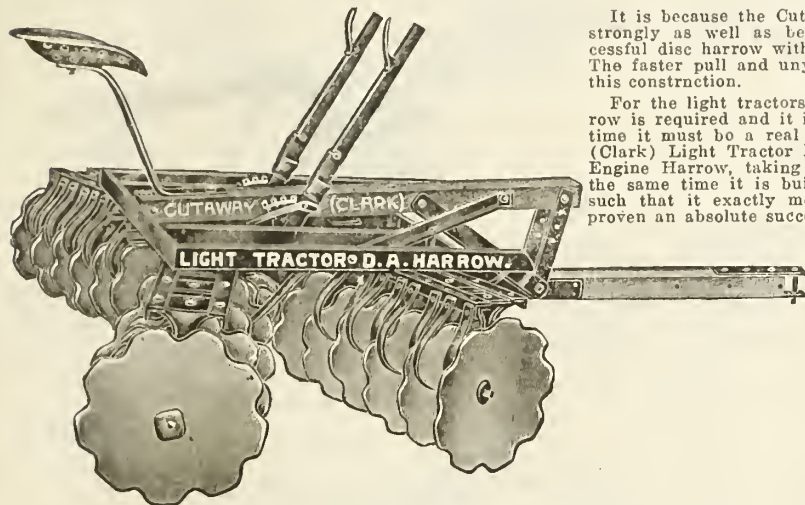


EVERYBODY KNOWS ROSS' SEED GROWS



Cutaway Double Action Light Tractor Harrows

No. 3



It is because the Cutaway (Clark) Double Action Engine Harrow is built so strongly as well as because of its perfect design that it has been the successful disc harrow with tractors and is recommended by tractor manufacturers. The faster pull and unyielding strain of tractor work have proven the need of this construction.

For the light tractors which are now becoming so popular a smaller size harrow is required and it is not necessary that it shall be so heavy. At the same time it must be a real tractor harrow and not a horse harrow. The Cutaway (Clark) Light Tractor D. A. Harrow has been built on the lines of the heavy Engine Harrow, taking advantage of every feature of the larger machine. At the same time it is built very much lighter. Its weight and construction are such that it exactly meets the requirements of the light tractors and it has proven an absolute success.

The Cutaway (Clark) Tractor Harrows are equipped with dust-proof, oil-soaked hardwood bearings.

This line of Cutaway (Clark) Tractor Harrows is complete and there is a size for every engine. For the extremely large tractors any size outfit can be used.

X-1	16	18-in. Discs,	4½ ft. cut,	580 lbs..	\$101.90
X-5	20	18-in. Discs,	5½ ft. cut,	675 lbs..	121.90
X-6	24	18-in. Discs,	6½ ft. cut,	835 lbs..	146.65
X-7	29	18-in. Discs,	7½ ft. cut,	965 lbs..	171.60

20% discount for cash.

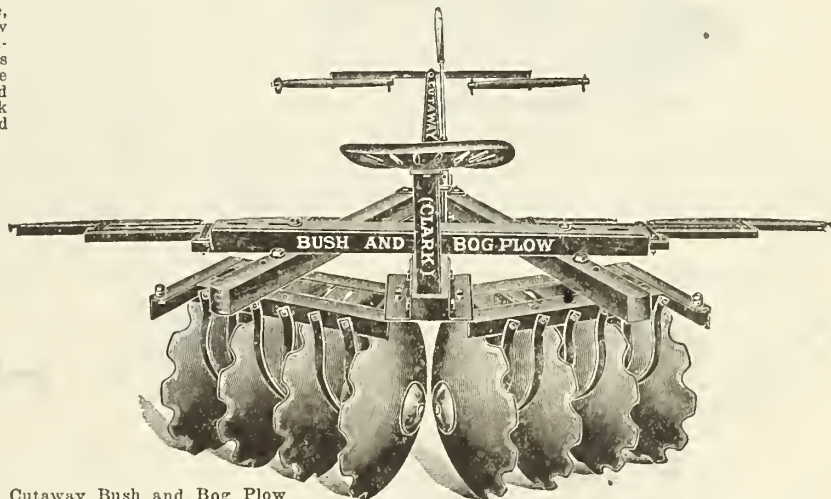
Cutaway Bush and Bog Plow

No. 4

On many farms are fields lying out as waste, simply because their owners do not know how cheaply and quickly they may be put under cultivation. The old, expensive, hand-labor method is no longer necessary. Much work that could be done heretofore only by slow, tedious and hard labor with an axo and bush-knife, shovel and pick can now be done with the Cutaway (Clark) Bush and Bog Plow.

As is shown in the larger illustration below on this page, this machine is a big, heavy disc plow or harrow, weighing 680 pounds. It is equipped with extra heavy 24-inch discs of standard Cutaway (Clark) quality, forged sharp. The bearings are dust-proof, oil-soaked hardwood, perfectly lubricated. It is built very strong throughout and stands up under work that would totally wreck other machines. In fact, it does work for which there is no other tool. For cutting brush land and cut-over timber land, for plowing bogs, or for doing any extraordinarily hard plowing and discing the Cutaway (Clark) Bush and Bog Plow stands in a class absolutely by itself.

Price, 8-24 in. discs, 5 ft. cut, 4 horse hitch \$120.75; Junior Harrow, 8-20 in. discs, 4½ ft. cut, 2 horse hitch, \$79.85. 20% discount for cash.



Cutaway Bush and Bog Plow

CLARK BABY CULTIVATORS.

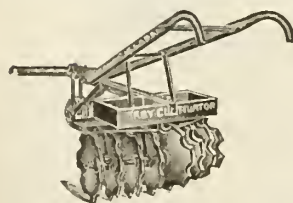
No. 5

These cultivators are made of the same high grade of steel as the harrow and are very efficient in pulverizing the soil between rows of garden truck or berry bushes.

Wt.

90 lbs. No. 1	6-14 in. disc,	24 in. cut
	\$23.85	
105 lbs. No. 2	8-14 in. disc,	32 in. cut
	\$27.50	
120 lbs. No. 3	10-14 in. disc,	40 in. cut
	\$30.24	

20% off for cash.



All prices in this catalogue are based on the lowest market price at time catalogue goes to the press but they are subject to market changes. This applies to both advance and decline.

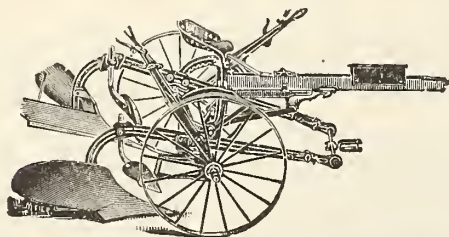


ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER. MASS.



Syracuse Reversible Sulky Plow

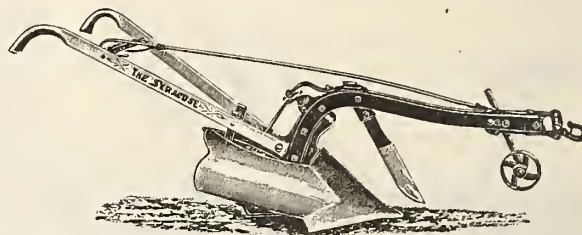
No. 6



Will plow on side hill or level ground and leaves no dead furrows. Throwing the plow in and out of the ground is done by the team, while the operator has control of the width of the furrow with his feet, leaving both hands free to handle the team. Two plows are used, one at a time, to turn a furrow each way. Will do satisfactory work in all kinds of soil, and of plowing, hill or level. Weight of plow, complete, 556 lbs. We furnish two sets of points and two-horse hitch with each plow. Price \$98.00. Three-horse hitch in place of two-horse, \$2.50 extra.

Syracuse No. 822 2-Horse Swivel Plow

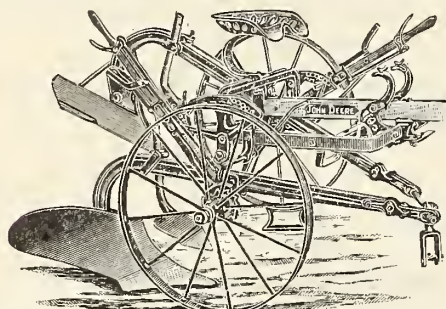
No. 9



Particular attention has been given to this plow for its ample throat capacity and close fitting joints to prevent clogging. The plow is built entirely of steel or malleable iron. It is furnished with wheel and automatic shifting jointer or coulter and shifting clevis. This plow will turn a furrow 4 to 7 inches deep and 4 to 10 inches wide, weight 140 lbs. Price with steel moldboard, \$32.25. With cast moldboard, \$29.75.

John Deere Two-Way Sulky Plow

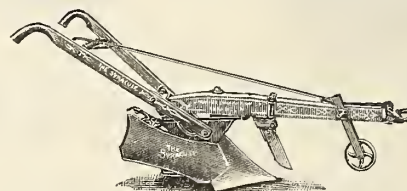
No. 7



The frame of this plow is wrought steel amply strong and rigid to stand any reasonable strain. The axles, balls, levers, and wheels are all steel and all the castings are malleable iron. In point of construction this plow is probably the strongest one on the market. It is similar to the Syracuse. This plow is remarkably easy to operate. Any boy who can drive a team can work it. The wheel base is 45 1/2 inches which makes it nearly impossible to tip over. Price, \$100.00.

Diamond A, B and C Plow

No. 10



New Style with Steel or Chilled Moldboard

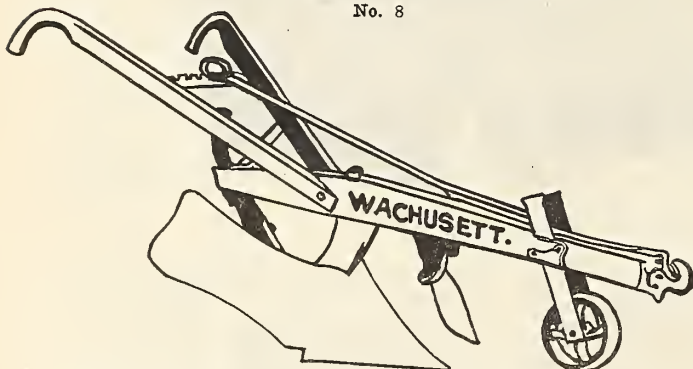
Excepting the Wachusett this is one of our best swivel plows. It is furnished with steel or chilled moldboard, patent foot latch, wheel and cutter and shifting clevis. All parts interchange with the '76 plow made at Castleton, Vt.

A cuts 5 to 7 in., 11 to 14 in. wide; weight 119 lbs. Price, \$23.75
B cuts 4 to 6 in., 8 to 12 in. wide; weight 114 lbs. Price, 22.25
C cuts 3 to 5 in., 7 to 8 in. wide; weight 71 lbs. Price, 16.35

A and B are two-horse; C one-horse. A and B have wheel and cutter. C has wheel only. Steel Moldboards, \$2.00 extra on A and B.

The Wachusett Swivel Plow

No. 8



This is our latest and we believe for all kinds of work, the best Woodbeam Swivel Plow on the market. Nearly all other plows on the market at the present time have some defects, and we have been studying for the past few years to overcome them as far as possible and we think we have accomplished our object in this plow. We are now equipping these plows with a shifting coulter. We can furnish either hardened or steel moldboards.

Price, No. 1 1-horse with wheel shifting lever and cutter, \$14.50	Price, No. 12, \$20.00
Price, No. 2 2-horse, 18.00	Price, No. 3, 16.50
	Price, No. 13, 18.50

No. 2 and 3 Hardened, No. 12 and 13 Steel Moldboards.

All hand plows subject to 10% discount for cash.

The Arlington Swivel Plow

No. 11



The Arlington Plow has become a favorite in many sections. They are made with steel shifting lever, clevis, patent spring foot latch. Moldboards are made of patent steeled metal, and all castings nicely polished. The beam and handles are made from selected stock, neatly striped and varnished.

No. 30 turns a furrow 13 to 16 in. wide, 6 to 8 in. deep. Weight, 135 lbs.

No. 29 turns a furrow 12 to 14 in. wide, 5 to 7 in. deep. Weight, 123 lbs.

No. 27 turns a furrow 8 to 11 in wide, 4 to 8 in. deep. Weight, 85 lbs.

No.	With Wheel and Cutter
30	\$25.75
29	24.75
27	\$16.25 17.75



EVERYBODY KNOWS ROSS' SEED GROWS



Oliver Pattern Chilled Plow

No. 12



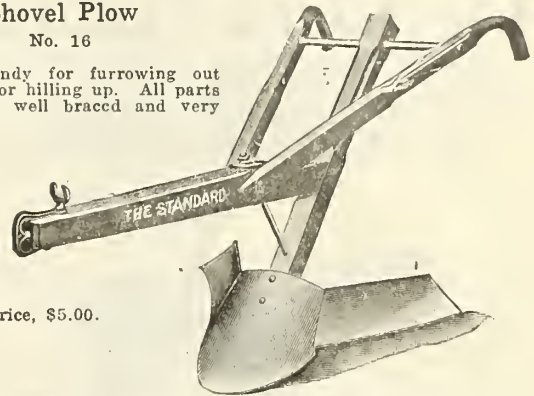
All parts interchangeable with the Oliver. This plow has a chilled moldboard, extra high standard, which prevents clogging in weeds or trash. It is our best one-horse landslide plow.

Number	Description	Price
No. A.	Light one-horse	\$ 9.50
No. B.	Medium one-horse	11.00
No. 10.	Large one-horse	14.50

Shovel Plow

No. 16

Very handy for furrowing out rows and for hilling up. All parts strong and well braced and very durable.



Net cash price, \$5.00.

Syracuse No. 823 One Horse Plow

No. 13



This plow is similar in construction to the No. 822, only being somewhat lighter. It is just the right size for a large one-horse in plowing gardens. It is made of steel and malleable iron, same as the No. 822, only lighter. Ample room is provided under the beam to prevent clogging. This plow is furnished with wheel only. Price, \$23.75.

Syracuse No. 32

Two-Horse Landside Plow
No. 17



This plow has steel moldboard and wheel, straight cutter or jointer. No. 32 is the same plow used on the double sulky with the addition of a pair of handles, and no better plow was ever made.

No. 32 cuts 5 to 7½ in. deep, 10 to 13 in. wide; weight, 103 lbs. Price, \$29.25.

Syracuse No. 5 Vineyard Plow One-Horse

No. 19



This plow is designed for plowing between rows of trees or vines. The handles are adjustable sideways or up and down. The horse can walk in the furrow or on the land. It can also be used for garden plowing. Iron beam; cuts 3 to 5 in. deep, 7 to 10 in. wide, weight, 63 lbs. Price, with wheel, \$13.35.

Grading Plow No. 1-78

No. 14



Price, \$25.25

Contractors' Plow

Road Plow No. 99
No. 18



Price, \$60.00

Pavement Plow No. 98

No. 20



Price, \$45.00

Doe Cast Iron Plow

No. 15



A good general purpose plow, designed for all kinds of garden work. Wood beam, cast moldboard and point.

	Wheel and Plain	Cutter
E 0 Medium one-horse	...	\$ 8.00
E 1 Large one-horse	...	9.25
E 2 Light two-horse	...	11.50
E 3 Medium two-horse	...	12.75
E 4 Two or three-horse	...	16.25
		\$16.50
		20.00

All-Steel Two-Horse Land Roller

No. 21

With solid steel head. Can not break and will not fill with gravel and stones. The most durable roller made.



ROLLER BEARING USED ON ALL ROLLERS

These minimize friction and make the machine run 40 per cent. easier than the old style of bearing. Has 1¼ in. axle, lath-turned to a glass-like smoothness. Axle is held in place by a take-up washer and cotter-pin and over the end is placed a cap which makes the bearing absolutely dirt proof. All machines have angle-steel frame, weight boxes and the seat balances the weight of the pole, relieving the horses of neck weight. All of these are valuable features and should be on the Roller you buy, for you want the best. No. 6. 6 ft. 24 in. diameter, \$35.00. No. 7. 7 ft. 24 in. diameter, \$37.50. No. 8. 8 ft. 24 in. diameter, \$40.00. All rollers have three sections.

All Steel One-Horse Land Roller

6 ft. 24 in., three sections No. 21a

Same construction and quality as the two-horse roller, and the best for truck farmers. This roller has solid steel heads same as the two-horse. Price, \$37.50.

All hand plows subject to 10% discount for cash.



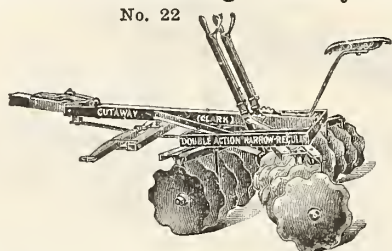
The Clark Family Cutaway Disc Harrows

These are the original Clark Cutaway Harrows. They are famous the country over. All Discs used on the Harrow have forged edges. Forging compacts the molecules in the steel, making the discs much tougher than those sharpened in any other way and makes them retain a sharp edge much longer.

A size for every farm, whether you use one small horse or a tractor for power.

Clark's Double-Acting Cutaway Harrow

No. 22



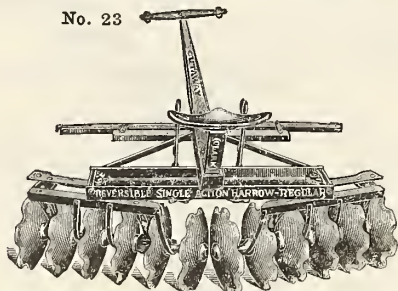
This harrow has two pair of gangs, one throwing in and the other out, which thoroughly pulverizes and levels the ground at the same time. This is a very strong made harrow and can be used for either two, three or four horses.

Price A 5 Double Acting 20-16 in. discs, 5 1/2 ft. cut, \$92.80
Price X 4 Double Acting 16-18 in. discs, 4 1/2 ft. cut, 96.50
Price A 4 Double Acting 16-16 in. discs, 4 1/2 ft. cut, 79.35

Discount for cash, 20%. Cash with order.

Reversible Single Action Harrow.

No. 23



All Cutaway Single Action Harrows are reversible. If you will observe the illustration you will see that the "dish" of the discs is out, and consequently the soil is moved outwardly. To reverse this harrow, you simply disconnect the lever links from the gang frames and swing the gangs around on the king bolts until what were formerly the outer discs become the inner discs, and reconnect the links. In this latter position the discs will throw the soil inwardly.

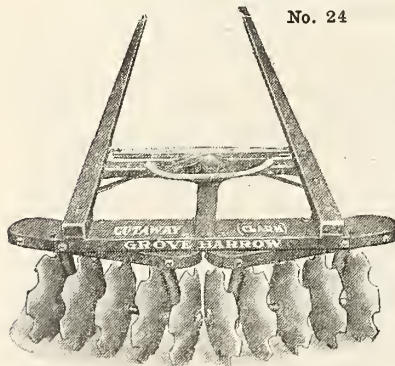
Like those on all other Cutaway implements, the discs on this harrow are the famous Clark cutlery steel discs, forged sharp. This feature partly accounts for the remarkably long service always given by Cutaway disc implements.

No. of Machine	No. of Discs	Diam. of Discs	Width of Cut	Hitch	Shipping Weight	Price
A-6	12	16	6 ft.	2-H	290	\$56.70

Discount 20% Cash with Order.

Clark's One-Horse Cutaway Harrow.

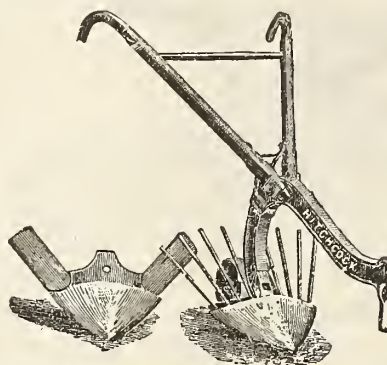
No. 24



This harrow is especially adapted to the needs of small farmers and fruit growers. It has ten 14 inch cut-out steel discs and is the only one-horse Disc Harrow that we have ever seen that we could recommend. A six Disc Harrow is not practical on account of the width. This Harrow cuts 4 feet and overcomes that difficulty. We can recommend this Harrow as being far superior to any spring tooth for general farm work. With Seat.

No. of Machine	No. of Discs	Diam. of Discs	Width of Cut	Hitch	Shipping Weight	Price
*O-5	10	14	4 ft.	1-H	150	\$36.85

20% off for cash with order.



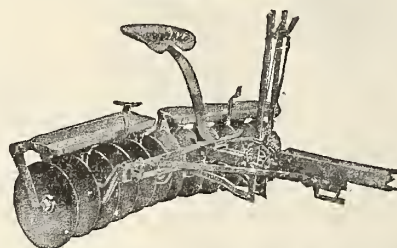
The Hitchcock Potato Digger and Shovel Plow Combined

No. 25

For digging and hilling potatoes. Price, complete, \$13.25. Without hiller, \$10.25.

Reliance Disc Harrow, Without Weight Boxes and Neck Yoke.

No. 26



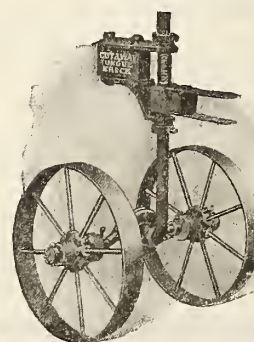
This Harrow has 12-16 in. steel discs, is furnished with steel scapers, whiffle trees, evener and has two shifting levers and is made entirely of steel and cast iron with exception of the pole. It is painted bright red and is a first-class Harrow in every way.

PRICES

12-16 in. discs. No weight boxes \$47.50

Harrow Tongue Truck.

No. 27



Note that both the tongue attachment and the team hitch are adjustable up and down, independent of each other. That the axle joint meets every requirement is shown in the illustration herewith. The oil-soaked hardwood bearings are set in a dust-proof hub and are lubricated from compression grease cups. This truck is strong and durable without being bulky. It weighs sixty pounds. The wheels are sixteen inches in diameter and have eight spokes. This Cutaway (Clark) Harrow Tongue Truck will fit any make of harrow. If a tongue truck is used on the Cutaway (Clark) Single Action Harrow it should be this tongue truck; on any other harrow the Cutaway (Clark) Tongue Truck is desirable. \$9.90. 20% off for cash.



EVERYBODY KNOWS ROSS' SEED GROWS



Quail Spring Tooth Harrow



No. 28

Our best spring harrow. It is made of the very best material throughout and has two levers for raising and lowering the teeth, has wheels for traveling with the teeth up, and has non-clog frame at center, in front. Bars on which teeth are hung fasten at ends so they can not spring out of place. Price, 15-teeth, \$28.00; 17-teeth, \$30.00.

No seat furnished at above price.

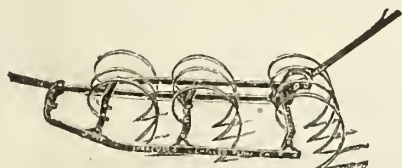
Monarch One-Horse Spring Tooth Harrow



No. 29

This is the best one-horse harrow made. It has standard teeth, strong tooth-holders and a convenient handle for working around the ends. Price, \$18.00.

Syracuse One-Horse Spring Harrow

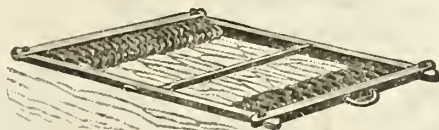


No. 30

In this harrow, the frame, tooth-bars and teeth are of steel, and all castings malleable, making a light and strong cultivator. The teeth adjust for wear, and the frame is protected underneath with renewable shoes. The lever assists in maintaining a uniform depth of cut, also in quickly unloading the cultivator of trash.

Has ten spring teeth, oil-tempered, and is adapted for all kinds of work. Has given perfect satisfaction. Price, \$18.00.

Meeker Smoothing Harrow



No. 31

This consists of a frame with four sets of rollers and 58 steel discs, which work between each other. The discs grind all lumps very fine and mash small stones below the surface better than any field roller.

4 ft. 6 in. x 4 ft. with 8 in. discs	\$26.00
6 ft. 8 in. x 6 ft. with 8 in. discs	30.00
8 ft. x 6 ft. with 8 in. discs	35.00
6 ft. 8 in. x 6 ft. with 10 in. discs	35.50
8 ft. x 6 ft. with 10 in. discs	46.00

The Monarch Spring Tooth Lever Harrow



No. 32

Some users prefer a spring harrow with shoes to slide on, in place of wheels, claiming that for certain purposes and in mellow soil, the depths can be regulated better. While this has to be hauled to and from the fields on the shoes instead of wheels, it will do just as good work, and is as durable as any harrow on our list. Price, 15-teeth, \$26.50; 17-teeth, \$28.00.

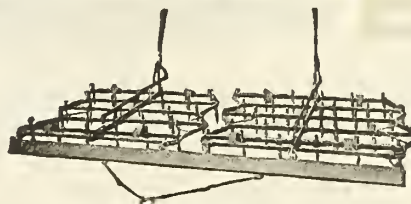
The Original Perry Spring Harrow



No. 33

This is the first spring-tooth harrow ever offered for sale, and it has many friends. For durability it is equal to any harrow made. The wood frame is lined with carbon steel. Bolt heads are protected. The teeth can not get loose. Used among rocks and stumps which would soon break any other harrow to pieces. Price, 16-teeth, \$17.00.

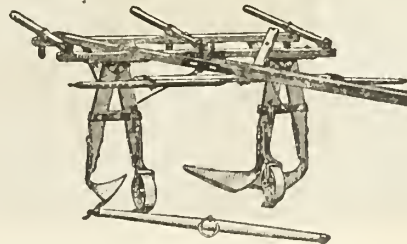
Big 5 Jr. Spike-Tooth Smoothing Harrow



No. 34

Designed as a leveling harrow, and for covering all kinds of grain and grass seed; also largely used for cultivating corn and potatoes just after they come up. The teeth are adjusted by means of a lever and can also be thrown up from the ground and harrow transported to and from the field on the shoes at the end. Each tooth is held in place by two bolts, while nearly all other harrows use but one. Teeth can be moved down as they wear. The entire harrow is made of steel. Price, 60-teeth, \$25.00; 50-teeth, \$23.00.

Prout's Two-Horse Hoe



No. 35

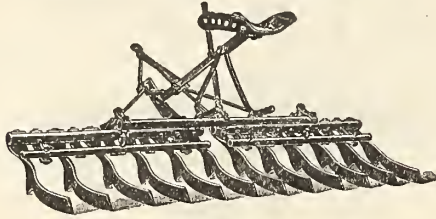
Each standard as shown in the cut has two Hoes attached, and in working one set of hoes work on one side of the hill and the other on the opposite side, hoeing a row at a time. The hoe operates same as a hand hoe, moving fresh earth to the plant, and crowding the old dry earth away from the plant. The hoes being made tapering permit of cutting close up to the plant without injury to corn roots which run close to the surface. Price, with wheels, \$26.00; price, no wheels, \$21.00.



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



The Acme Pulverizing Harrow



No. 36

A general purpose harrow, that will crush, cut, lift, turn, smooth and level the soil to perfection all in one operation. While pre-eminently adapted for heavy stubborn land, it can be adjusted, by means of levers and runners, to do perfect work on the lightest soil. It cuts the entire surface, without disturbing sods or trash that has been turned under by the plow. It prepares a perfect seed bed, and also covers seed in the best manner. The draft is reduced to a minimum. Being made entirely of cast-steel and wrought iron, it is practically indestructible.

No. 23. Regular size, 1 and 2 horse, made in two sections. Price, \$30.00. 5% cash.

No. 17. RIGID FRAME. Price, \$26.50.. 5% cash.

Cast Iron Boat Head

32 in. wide

The illustration below shows a simple device whereby a stone-boat can be made in a few minutes by using a straight plank with the addition of the Iron Head. Anyone in need of a stone-boat will readily see how easy it is done, and as one head will last for years, it is not only cheap but durable.



No. 37

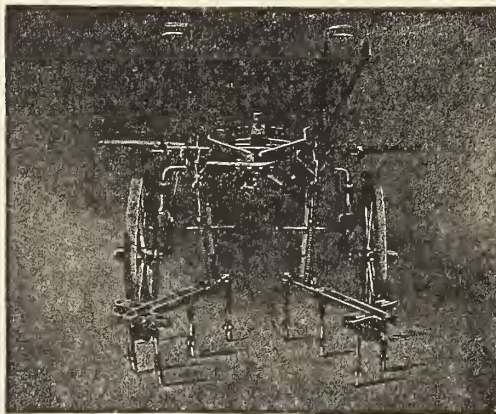


No. 38

BOAT COMPLETE. 7 ft. long. Complete \$10.50. Bolts for above \$1.00 a set. Price of Head Only, \$6.00.

All Wood Boat. Complete \$9.00.

Ohio Riding Cultivator



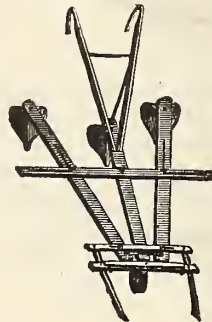
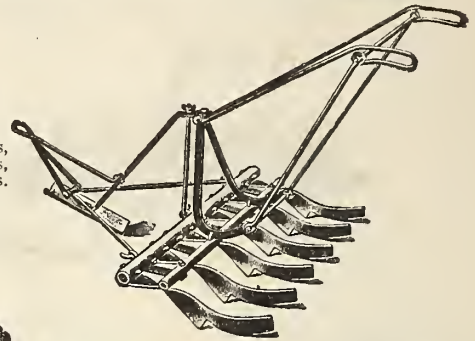
No. 39

This cultivator has a lever for expanding and contracting, also convenient depth levers for raising and lowering, foot rests for controlling on side hill, spring trip teeth so that it can be used on stony land. This is a first class two horse riding cultivator which can be used on any farm and the price is within the reach of all. Price, \$65.00.

No. H, 1 Horse "Acme" Harrow

No. 40

This style has 8 coulters, crushing shoes and seat; works, 4 ft. 4 in. wide, weight, 90 lbs. Price, \$21.50. 5% cash.



The Goslee Improved Marker

No. 41

Adjustable Tooth, Spreads 2 to 4 ft.

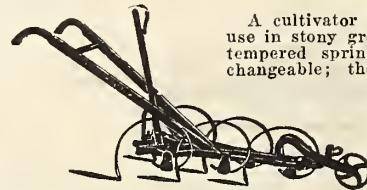
This machine is designed to mark out rows of any width, and in doing so it makes a furrow suitable for planting. Price, \$13.50.

Spring Tooth Cultivator

No. 42

A cultivator that is especially adapted for use in stony ground. The teeth are fine, oil-tempered springs, and are alike and interchangeable; they are also adjustable for angle and depth. Has expanding lever, five spring teeth and wheel. Price, \$7.50.

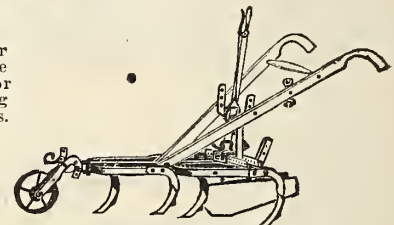
7 Tooth Spring Cultivator, \$9.00.



Yankee Cultivator

New Yankee Cultivator with long hillers. Can be used for furrowing out or covering, also for hilling potatoes and similar crops. Price, \$10.00.

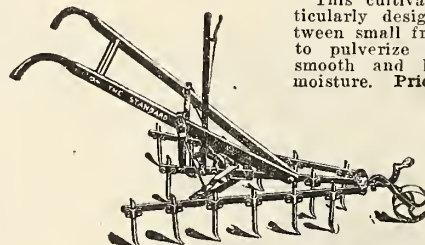
No. 43



Spike Tooth Cultivator and Harrow

This cultivator and harrow is particularly designed for cultivating between small fruits. Especially adapted to pulverize the soil and leave it smooth and level, thus conserving moisture. Price, \$7.25.

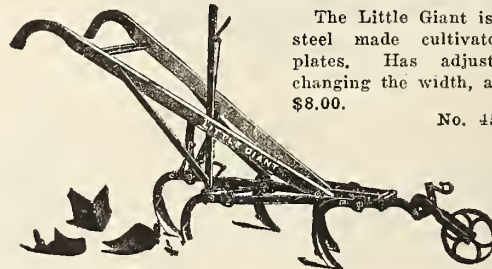
No. 44



Little Giant 5-Tooth Cultivator

The Little Giant is a heavy strong steel made cultivator with 5 steel plates. Has adjustable lever for changing the width, also wheel. Price, \$8.00.

No. 45





EVERYBODY KNOWS ROSS' SEED GROWS



Planet Jr. Farm and Garden Tools

If you are a farmer, trucker, orchardist, or suburbanite with a kitchen-garden, there is a Planet Jr. made for your special need. You can't afford to work without a Planet Jr.

No. 3 Planet Jr. Hill and Drill Seeder

Price \$18.50

No. 46

Holds 3 Quarts of Seed.
A favorite among onion growers, market gardeners and seedsmen. Sows accurately in a narrow line, making wheel-hoe cultivation easy.



The flow of seed is instantly started or stopped by the cut-off rod. Sows in large or small quantities in drills or in hills, 4, 6, 8, 12, 24 inches apart.

We recommend customers to buy separate seed drills and wheel hoes where they have enough work to warrant it, and this is our popular size at a popular price.

No. 5 Planet Jr. Hill and Drill Seeder

No. 47

Price, \$21.00.

16½-inch steel driving wheel.

Holds 5 quarts.

No. 5 is undoubtedly the best seeder we make for market gardeners, onion set growers and other large planters. The style of construction is the same as in No. 3, the valuable mechanical features being common to both.

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

No. 47a

Price complete, \$19.50

As a Seeder only (No. 4D), \$15.50.



This tool sows all garden seeds from the smallest up to peas and beans in hills 4, 6, 8, 12 or 24 inches apart, or in drills. No time is lost. No seed is wasted. By removing the seeder parts and substituting the tool frame, you have a first-class single wheel hoe. Makes the care of a garden a pleasure as well as very profitable. Can be used successfully by men, women or growing boys. Pays for itself in a season and will last for years.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow

No. 48

Holds 2½ quarts of seed.

Price \$23.00.



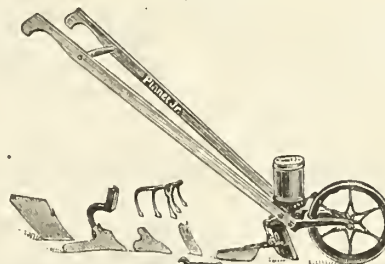
A splendid combination for the family garden, onion grower, or large gardener. It is a perfect seeder, and combined double and single wheel hoe.

72-page Planet Jr. catalog free

Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

No. 31 Planet Jr. Combined Drill Seeder and Single Wheel Hoe

Price, \$13.00.



No. 49

This new tool is of great value to gardeners who have never felt able to own either a seed drill or a wheel hoe. It will sow even a small packet of garden seed with great precision. Quickly changed to a splendid wheel hoe. A special machine for the small gardener.

No. 31D Planet Jr. Seeder

No. 49a

Price, \$10.50.

This is the No. 31 shown above, without the cultivating attachments. If you have a wheel hoe and want to save labor in planting your garden and make the wheel hoeing easier, we recommend this No. 32 seeder.

No. 11 Planet Jr. Combined Double and Single Wheel Hoe, Cultivator, Plow and Rake

Price, with Attachments as in cut, \$16.00.

No. 50

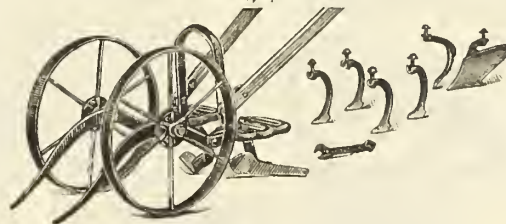
14-inch Steel Wheels Steel Frame



A single and double wheel hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

No. 12 Planet Jr. Double Wheel Hoe, Cultivator and Plow

Price, \$12.50.



No. 51

This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf lifters only. They are what gardeners use most, and the others can be added as wanted.

No. 13 Double and Single Wheel Hoe

No. 52

Price, \$9.00.

This tool is the No. 12, with 6-inch hoes only, these being the tools that are most used and are adjustable for the complete culture of onions. Any of the attachments shown with No. 11 may be added at any time.





ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

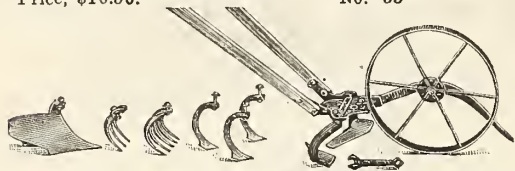


Planet Jr. Farm and Garden Tools

No. 16 Planet Jr. Single Wheel Hoe

Price, \$10.50.

No. 53



The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman or boy. Will do all the cultivation in your garden in the easiest, quickest and best way.

No. 17 Planet Jr. Single Wheel Hoe

Price, \$8.75.

No. 54

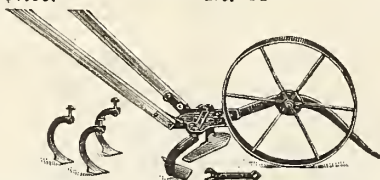


Same as No. 16, but without the Rakes and Leaf Lifter. These Single Wheel Hoes have steel frames and 15-inch steel wheels.

No. 17½ Planet Jr. Single Wheel Hoe

Price, \$7.60.

No. 55



This tool is identical with No. 16, except in equipment. The pair of 6-inch hoes, three cultivator teeth and leaf lifter which go with it, are all the finest of their kind.

No. 18 Single Wheel Hoe

Price, \$6.25.

No. 56

This has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. Other attachments can be added as needed.

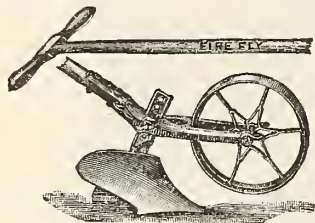


Fire-Fly Garden Plow.

No. 57

Price, \$4.00.

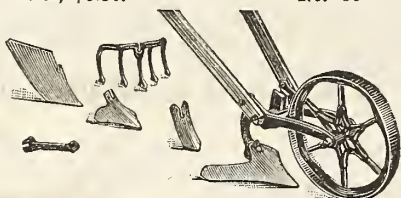
This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken raisers find it of great advantage in plowing up their scratching yards. It will throw a furrow four to six inches wide and one to three inches deep.



No. 33 Planet Jr. Single Wheel Hoe

Price, \$6.50.

No. 58



The Wheel Hoe portion of the No. 31 Combined Seeder and Wheel Hoe. This combination will delight the suburbanite, the growing boy, women, younger or older, who will find it a light running wheel hoe that will save them hard work and help much to supply the table with fine vegetables.

No. 19 Planet Jr. Single Wheel Hoe

Price, \$6.25.

No. 59

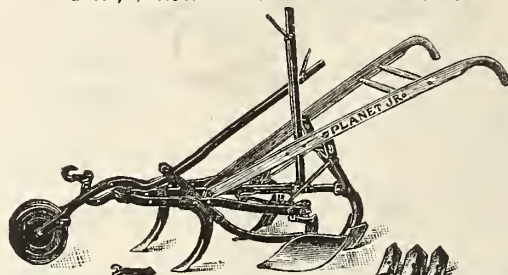


This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations.

No. 8 Planet Jr. Horse Hoe

Price, \$20.00.

No. 60



Stronger, better made, and capable of a greater variety of work than any other cultivator made. Non-clogging steel wheel. Depth regulator and extra long frame make it run steady.

No. 9 Planet Jr. Combined Horse Hoe

No. 60a

Price, with Steel Wheel, \$17.25.

Is identical with No. 8, except that it has no depth regulator, and has a plain wheel instead of lever wheel.

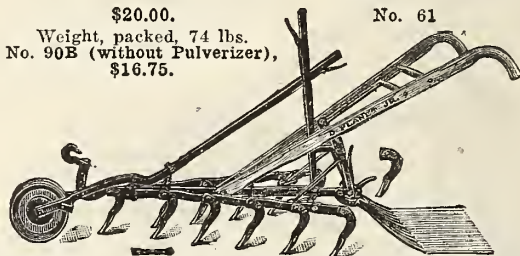
No. 90 Complete, with Steel Wheel

\$20.00.

No. 61

Weight, packed, 74 lbs.

No. 90E (without Pulverizer), \$16.75.



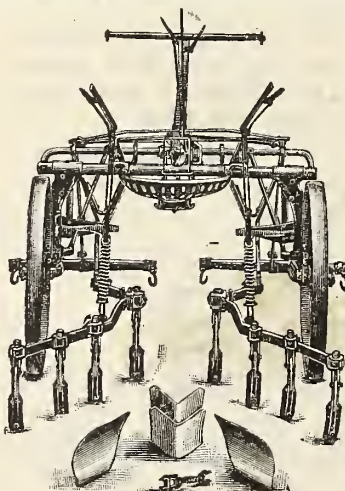
An invaluable tool in the market garden, truck and strawberry patches. Has new steel wheel which prevents clogging. Its 12 chisel-shaped teeth cut out all weeds, stir and mellow the soil and leave the ground in the finest condition without throwing dirt on plants.

No. 76 Planet Jr. Pivot Wheel Riding Cultivator, Plow, Furrower and Ridger

No. 62

Cultivates, plows and hills crops 28 to 48 inches apart. Built for thorough work and real lasting service. Its superior construction, accurately fitting parts, spring lifting levers and variety of cultivating attachments make it yield big dividends in time and labor saved.

No. 76F, with spring trip standard, \$105.00.



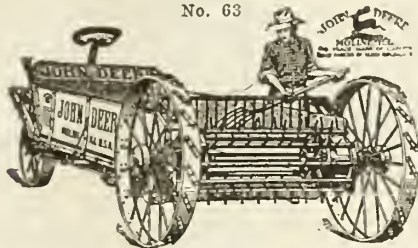


EVERYBODY KNOWS ROSS' SEED GROWS



John Deere Spreader With Beater on the Axle

No. 63



All the working parts of this spreader are mounted on the main axle. No clutches to give trouble, no chains to get out of line, no adjustments to be made. This is one of the latest spreaders to go onto the market, very easy to load and has very few parts. The manufacturers claim one hundred parts less than used on any other spreader.

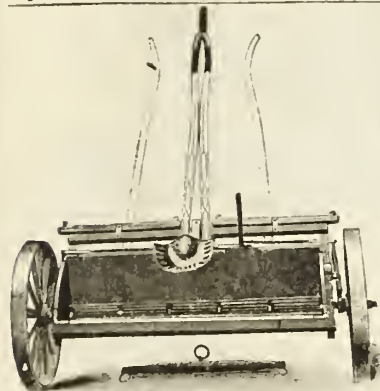
The change of feed is accomplished by a double shoe which is moved from the seat. This shoe determines the number of teeth the ratchets engage at each stroke. Whether spreading five or twenty-five loads to the acre, the stroke of the ratchet arms is always the same. It has an endless apron and the ratchet feed is locked, steady and positive and can be speeded up to spread the last part of the load. An endless apron on a spreader has many advantages. Larger loads can be hauled and spread.

The beater is made entirely of steel, and there is no chance for it to warp, split, twist or get out of shape. It has ten bars made of high carbon, channel steel to which the teeth are fastened. Price, 30 bu. capacity, \$190.00; 40 bu. capacity, \$195.00.

The Stevens Fertilizer Sower

For sowing all kinds of commercial fertilizer, either damp or dry, in drills or broadcast. Thoroughly satisfactory as a lime spreader. In meadows and orchards almost a necessity. Unequaled for top-dressing grass lands, lawns or large parks. 5 ft. 10 in., Price, \$54.00. 8 ft. 3 in., Price, \$59.00. 10 ft., Price, \$65.00.

No. 64

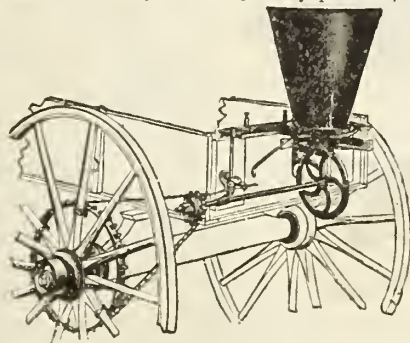


Farmer's Friend Fertilizer Sower

Attaches to any ordinary farm wagon, and sows to perfection grass and grain seeds of all kinds and in any desired quantity per acre, 50 to 100 acres a day.

It also distributes all dry commercial fertilizers; also ashes, land plaster, lime, etc. It has a positive feed and an adjustment opening the holes from $\frac{1}{4}$ to $1\frac{1}{2}$ inches, which allows the sowing of seeds of any size; the flow can be shut off anywhere, either on one side or the other, or altogether, as required; it is instantly thrown in or out of gear.

Price, complete to attach to wagon, \$13.00.



No. 65

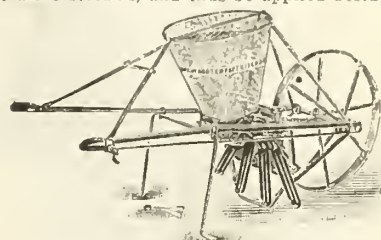
Eclipse Two-Row Two-Horse Corn Planter

No. 66

The most complete, accurate, durable, and easily handled double row corn planter in the market. All the good points found in the well-known and popular "ECLIPSE SINGLE ROW PLANTER" are retained in this machine. Rows 36, 38, 40 and 42 inches apart. The new Marker Device, used for two seasons with perfect success on the single-row Eclipse, is used on this. One move of the lever throws the machine out of gear, and at the same time raises the planter and covers ready for turning the team at end of rows. Price, \$72.00.

McWhorters Hand Fertilizer Sower

This fertilizer sower can be instantly changed so that the stream is divided from one into two or more streams, and thus be applied beside one, two or more rows of plants at the same time. The spouts or channels through which it passes to the ground open and close, so that starting with a width of about 4 inches the spread can be gradually increased to 30 inches. This is especially adapted for top dressing strawberry beds and lawns. Price, \$15.00.



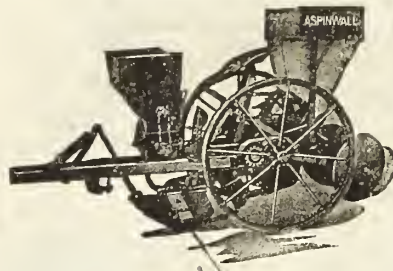
No. 67

Aspinwall Potato Planter

Improved for 1919.

THIS MACHINE PLANTS A GREATER RANGE OF SEED, both as to size and shape, than ever before and handles it with the least possible friction or wear.

To regulate the distance of planting—simply a change of gear wheels, which can be made in less time than it would take to replace one picker. In lieu of the cumbersome wooden structure, a CANVAS HOPPER has been substituted, which overcomes all tendency to clog or bridge with either whole or cut seed. BOTH THE FEED AND COVERER TENSION ARE REGULATED FROM THE SEAT. NO removal of bolts—simply turning a thumbscrew does the work. List price, with



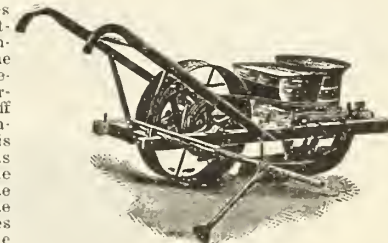
No. 68

fertilizer attachment and disc coverers, \$125.00. 5% Cash.

"King of the Cornfield"

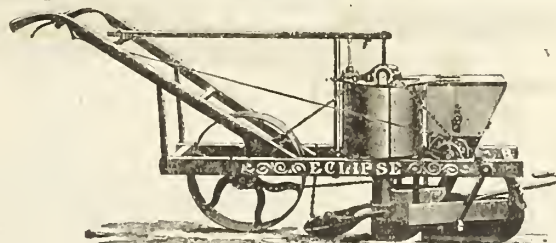
Corn, Bean and Pea Planter and Fertilizer Distributor.

Does perfect work, not only in planting corn in hills or drills, but does equally as good work planting peas, beans, and all similar seeds, putting in the fertilizer as well, in any desired quantity, or the fertilizer may be stopped off altogether, if desired. Another great feature in this machine, corn and beans may be planted at the same time in the same row, the beans half way between the corn, or $4\frac{1}{2}$ or 9 inches from corn, as desired. The fertilizer may be put with the corn and left out of the beans, if desired to do so. Price \$33.00.



No. 69

Eclipse Corn Planter and Fertilizer Distributor

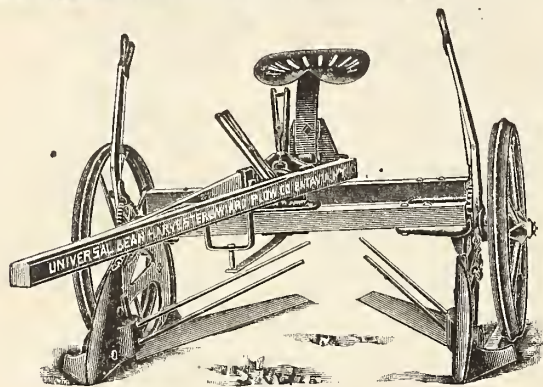


No. 70

Plants field or ensilage corn, beans, peas or beet seeds in hills, drills or checks; it will drop 6, 12, 24 or 36 inches apart. By scattering pumpkin seeds in with the fertilizer in filling the hopper will place seeds in hills when planting corn. It accurately distributes from 50 to 450 lbs. as desired, of commercial fertilizer, wet or dry, in the rows of hills, first drawing moist earth on the seed before the fertilizer is dropped each side of the seed, and all is covered to a uniform depth. Price complete, \$33.00.



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



The Universal Bean Harvester

No. 72

For many years Beans were planted in small acreage only, and pulling by hand was a very slow, laborious, back-breaking and expensive process. Since the Universal Harvester has come into use the acreage of Beans has increased by leaps and bounds, until at the present time the commercial crop is grown to a greater or less extent in every state in the Union.

The Universal Harvester cuts or pulls two rows at a time. The Blades should be adjusted or set by the use of the side levers and pole tilting device to run about two inches below the surface so as to cut the roots; if the Blades are set to run too shallow they are liable to shell the Beans.

The condition of the crop when harvested, as to whether the Beans are free from quack or weeds and the ground is wet or dry, has much to do with the perfect working of the machine. The operator by using a little patience soon learns how to adjust the machine in order to get the best results.

The Beans when cut in two rows are gathered by the cleaners and brought together into a windrow in the rear of the machine, free from dirt and roots. The cleaners can be adjusted by bending to suit conditions.

Price, wood frame, \$16.00; steel frame, \$50.50.

Moline-Monitor

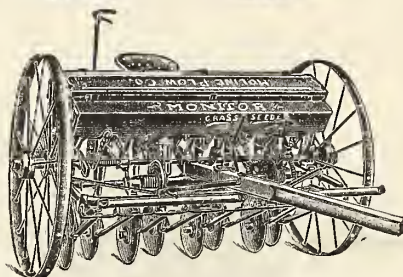
Drill for Sowing

Grain, Grass Seed

and Fertilizer all

at one operation

No. 71

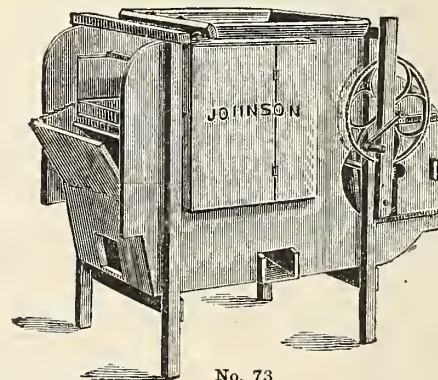


It is not only the duty of every farmer to produce more grain but it is also his duty to save every bushel of seed and by using a grain drill you know that every grain is planted properly, not only the proper depth but it is covered so it will not be picked up by the birds.

There is no question as to the advantage of drilling over broadcast seeding. This has been demonstrated in nearly every experiment station and by thousands of good farmers. The Moline-Monitor method of drilling small grain is as far ahead of the ordinary methods as they are over broadcasting.

Not only has the extended use of commercial fertilizer resulted in a largely increased demand for fertilizer drills, but it has done much more, by bringing out many new conditions and revealing imperfections existing and changes necessary in the types of fertilizer drills heretofore on the market.

The Moline-Monitor Fertilizer Drill is of the same general construction which has proven practical and satisfactory in all sections where commercial fertilizer is used. It has, however, been greatly improved both by making each and every part stronger and by paying especial attention to the gear construction and alignment. Write for price.



No. 73

A good Fanning Mill is an indispensable article on any large farm where grain is grown in any quantity.

We must grow our own grain in the future instead of buying it as we have been doing in the past.

This mill is designed especially for the farmer who has a power thrasher and cleaner.

It is made of first-class material and cleans all kinds of grain as well as field pea beans.

It removes all chaff, sand, and inferior seed. Price, \$30.00.

THE GRAY THRESHING MACHINE

No. 74

Made in New England and especially adapted for New England use, but good enough for any state.

Every town should have a Threshing Machine. There is no question but what we are going to continue to grow our Wheat, Rye, Oats and Barley and these grains can be threshed to much better advantage with

a Gray Threshing Machine than in any other way.

The improvements in the Gray Threshers which have been on the market for a great many years have brought them up to the present time in the foreground of American Threshers. You cannot find a machine that will stand the rackings and will do as good work as quickly and as easily as the Gray. While it is not the cheapest machine to buy, it is the cheapest one to own for it is less liable to break down and if it does repairs can be had quickly, which is very important at threshing time.

Gray Threshers are made in different sizes, equipped with all of the necessary attachments such as baggers, stackers, elevators, loaders, etc. The

No. 231 and No. 261 are small sized machines, especially adapted for home use. They will take up very little room in your barn or shed and can be loaded into a common farm wagon if you wish to go on the road or on a stoneboat for work around home.

A complete catalogue will be mailed free on application. If there isn't a threshing machine already in your town, it will be a good investment, not only for your work but will do the work of your neighbors. It will pay a good dividend on the investment.

THRESHING MACHINES		Price
Thresher No. 231	.....	\$270.00
Thresher No. 261	.....	325.00
Thresher No. 265	.....	375.00
Thresher No. 305	.....	385.00
Thresher No. 306	.....	430.00

TRUCKS FOR MOUNTING		Price
Thresher No. 231	.....	\$ 60.00
Thresher No. 261	.....	60.00
Thresher No. 265	.....	75.00
Thresher No. 305	.....	75.00
Thresher No. 306	.....	75.00

ATTACHMENTS FOR THRESHING MACHINES

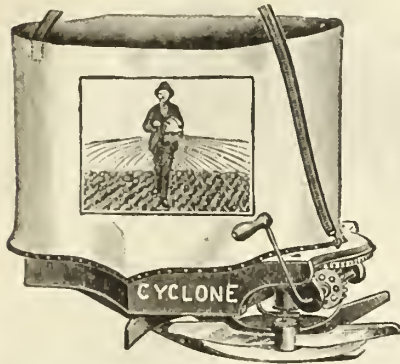
Improved Bagger	.....	\$ 40.00	20-ft. Folding Stacker	.....	75.00
Wagon Loader	.....	40.00	Tailings Elevator	.....	25.00



EVERYBODY KNOWS ROSS' SEED GROWS



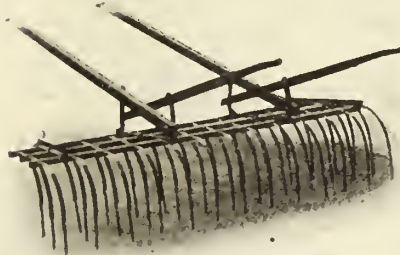
The Cyclone Broadcast Seeder



No. 75

Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. Net price, \$2.00. Mailing weight 2 lbs.

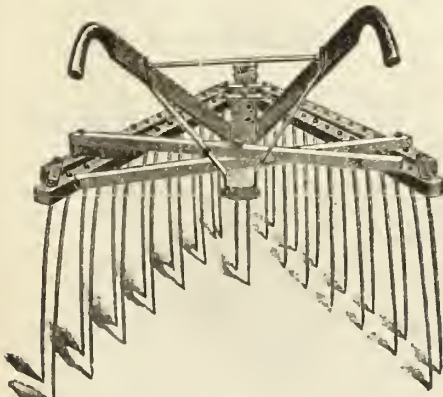
The Worcester Weeder—The Farmers' Best Friend



No. 76

One of the indispensable articles on any farm, where horse cultivated crops are grown, or where corn or grass seeds are sown. This weeder is made of high carbon angle iron steel, teeth attached to frame with bolts and are held tight by a spring steel lock washer. This is the best implement made for preparing a seed bed and will pay for itself in one season. In cultivating corn it should be used just before the crop is up and immediately after. Destroys the weeds but does not injure the crop. Price, \$12.50.

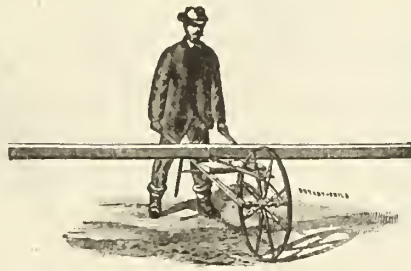
Keystone Adjustable Weeder



No. 77

Expands to 7 feet; can be closed to 3 feet. Used for leveling. Price, \$12.00, round teeth; with flat teeth, \$13.00.

Thompson's Seeder



No. 78

For Broadcasting Grass, for sowing Red Top, Clover, Timothy, and All Mixed Seeds. Light, strong, and simple.

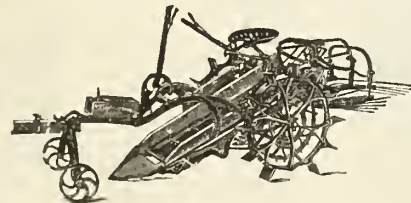
Sows uniformly the whole length of the hopper, twelve feet.

Seeder No. 5. Sows Clover, Timothy, Hungarian, Millet, Alfalfa, Chaffy Seeds, like Red Top, Orchard Grass and Kentucky Blue Grass. Price, \$10.00.

No. 4. Grain Seeder Box, 10 feet, for sowing all kinds of grain. Fits No. 5 Seeder, and with both boxes all kinds of grain and grass seeds can be sown. Price, \$5.50.

No. 5 Seeder and No. 4 Grain Box. Price, \$15.50.

The Hoover Potato Digger



No. 79

The standard potato digger of the East. This digger harvests the entire crop. The potatoes being dropped at the rear and are not covered with dirt or trash. Potatoes are left in a narrow row and not scattered and can be easily picked up. The separation of the potatoes from the dirt is complete and potatoes are not cut or bruised in the operation. Price, \$122.00.

The Segment

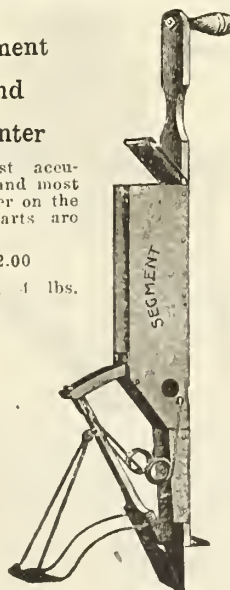
One-hand Corn Planter

Lightest, most accurate, strongest and most up-to-date planter on the market. All parts are interchangeable.

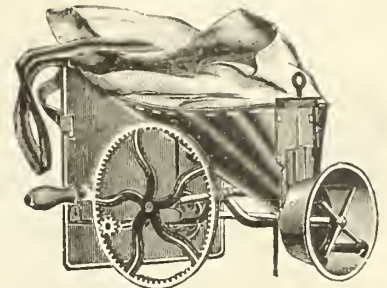
PRICE, \$2.00

Mailing weight, 4 lbs.

No. 80



Cahoon's Improved Broadcast Seed Sower



No. 81

Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 from each side of the operator); lighter seeds, of course, will not be thrown so far. Price, \$3.50. 8 lbs.

The Worcester Horse Hoe and Furrower



No. 82

The best implement made for furrowing, covering and hilling potatoes and similar crops. The steel covers or wings can be adjusted for making any style of hill desired in furrows uniform width. All potato growers know the value of this tool and none of them attempt to get along without it. It is necessary to cover young plants completely when just out of the ground. The steel hillers are made of best crucible spring steel and will last for a lifetime. Price, \$11.00.

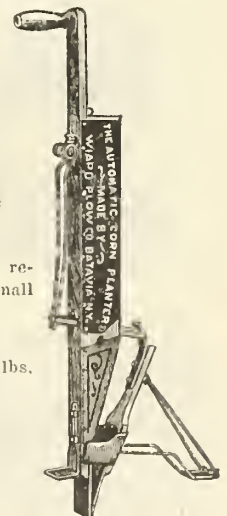
Automatic Hand Corn Planter

Very handy for re-planting and for small gardens.

PRICE, \$2.75

Mailing weight 5 lbs.

No. 83

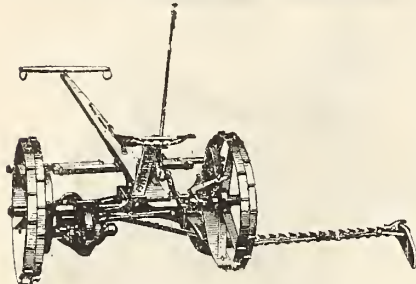




ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



DEERING IDEAL MOWER



No. 84

This machine runs on ball and roller bearings which makes a very light draft and still running machine. All breakable parts are malleable iron. Frame is cast in one piece. Gears are so placed that the entire mechanism is well balanced, with no side draft.

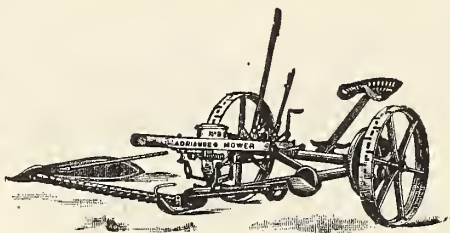
PRICES

4 foot cut, one horse, Ideal Mower, \$75.00
5 foot cut, two horse, Ideal Mower, \$77.50
6 foot cut, Giant Mower, \$82.50

ADRIANCE BUCKEYE MOWER

This machine has direct draft and no neck weight. The foot lever for raising the bar is directly in front of the driver's feet, making it very easy to operate. All levers on this machine are within easy reach of the driver. Cutter bar folds over the pole for transportation. This machine always gives satisfaction.

PRICES: 4 foot cut, one horse, \$75.00; 5 foot cut, two horse, \$77.50.



No. 85

MOWING MACHINE SECTIONS

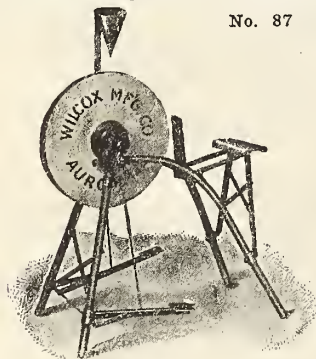
No. 86

All of our mowing machine sections are put up in the latest improved styles, that is each box will contain 25 sections. All the sections are fully warranted and we have all sizes to fit the Deering, Buckeye, Champion, Wood, McCormick, or Osborne machines. We think the trade will fully appreciate having all the sections come complete with the rivets rather than make two separate purchases and we are able to sell these sections at a price less than the common sections which we have sold heretofore. Give size when ordering or send old one for pattern. Price, \$1.65 per box of 25 sections. Wt. 4 lbs.

WILCOX-KING TUBULAR STEEL FRAME GRIND- STONE.

WITH FOOT-TREADLE AND SEAT

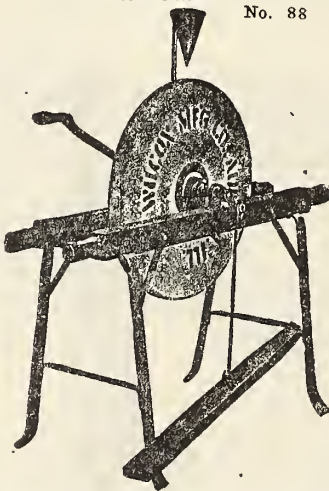
No. 87



Adjustable seat, 4 to 5 inches vertically. Stone movable forward and back on frame. Frame being slightly flexible, it adjusts itself to uneven floors or surfaces. Rigid and easily set up. Bi-treadle with power properly applied. Hinged connection with ball-bearings on crank. Ball-bearings in journals. Frame is narrow at top, making it convenient to apply power, and spread at base giving greater rigidity. Crated complete, stone protected. Made in one size, about 70 lb. stone. Price, \$8.50.

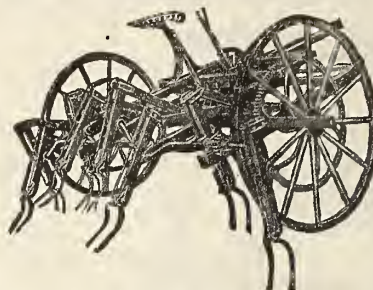
WILCOX MOUNTED GRIND- STONE

No. 88



This is the best low-priced grindstone on the market. The stone is best Berea Grit (Ohio), the legs are iron, which will not rot if left out during haying; the wood side-pieces are painted bright vermilion. Runs on ball-bearings, and every stone warranted to run true. No. 3 Stone, 85-88 lbs. Price, \$7.00. No. 2 Stone, 62-66 lbs. Price, \$6.50. No. 1 Stone, 45-48 lbs. Price, \$6.00.

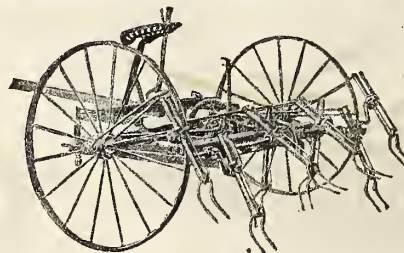
BAY STATE STEEL FRAME HAY TEDDER.



No. 89

This is the neatest and most substantially built steel frame hay tedder on the market. It has a solid steel axle and on stony ground we recommend this to any other tedder as we believe a steel frame and wood wheels, if properly housed, will last longer than steel. The fork arms are made of the best hard wood. It has two levers, one throwing in and out of gear and one for raising and lowering the forks for uneven ground. It has combined pole and shafts so it can be used for either one or two horses. It is the best steel-frame hay tedder on the market, made in one size only, six forks. Price, \$60.00.

THE MONARCH STEEL HAY TEDDER



No. 90

As shown is the latest thing out for a Chain-Driven Tedder. It is made of first-class steel, by skilled workmen. The wheels are extra heavy channel tire with staggered steel spokes. The frame is made of continuous steel angle bars in one solid piece, no spliced corners, no bolts or rivets to get loose. It has great strength at all points. The crank shaft is made of the very best tool steel with turned bearings, and broad journal boxes. The fork arms are made of boiler tube, and relief coil crucible steel spring is provided for each tooth. It has double seat support and separate levers for throwing in and out of gear, and for raising and lowering the teeth, both within easy reach of the driver. Has six forks and combined pole and shafts to be used with one or two horses. Price, \$65.00.

BINDER TWINE

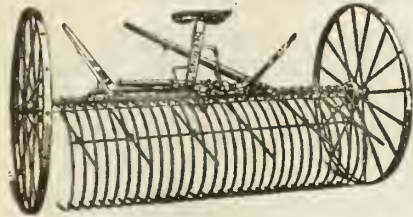


No. 91

Put up in 5-lb. balls. 5-lb. balls, \$1.75; 50 lbs., bale, \$15.00.

EVERYBODY KNOWS ROSS' SEED GROWS

DEERING STEEL FRAME RAKE



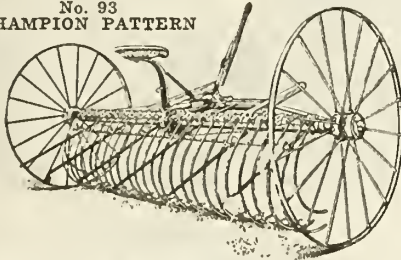
8 FT. 25 TEETH

No. 92

This rake is made to supply the demand for an all-steel rake. We believe this is the best of the entire lot. It is a horse dump-rake. Strength and simplicity are two features of its construction. Price, \$45.00.

NEW YORKER HAY RAKE

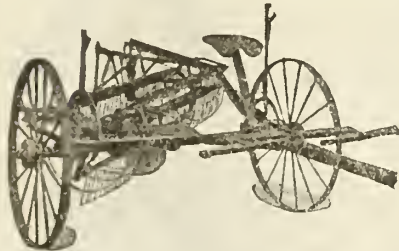
No. 93
CHAMPION PATTERN



No. 2 1/2. 8 FT. 26 TEETH

This rake will rake green hay and aftermath better than other makes. It has the sled runner tooth, is a self-dumping rake, and is easily operated. There are several imitations on the market. Be sure and get the genuine. Price, \$39.00.

KEYSTONE COMBINED SIDE-DELIVERY HAY RAKE AND TEDDER



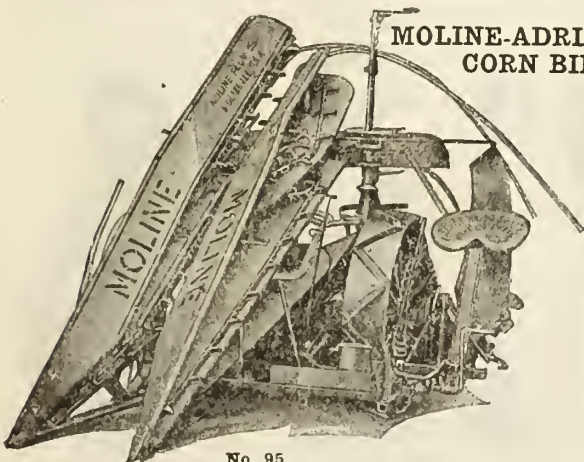
No. 94

rake much cleaner, and turning the hay into a neat, airy windrow, where the air gets an equal chance at stems and leaves. Air cured hay is better than sun-dried hay.

The left-hand delivery deposits the windrow on the clean stubble and not on the unturned swath, as in the case of the right-hand rake. Price, \$105.00

The left hand delivery of the Keystone combined side delivery rake and tedder allows you to follow the mower closely and rake the hay before the leaves begin to wilt. This is practically the same construction as the regular Keystone Side Delivery Rake, which does not have the reversing mechanism for tedding that this machine has. The teeth strike the head of the hay first and

MOLINE-ADRIANCE CORN BINDER



No. 95

YANKEE HAY RAKE

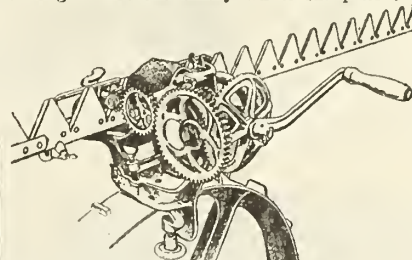


No. 96
24 TEETH

This is the old reliable Yankee, which needs no introduction. It is a very easy rake to operate, each tooth being independent; it will pass over large stones without breaking the teeth. It is so easy to operate that a child can handle it. Price, \$40.00.

DEERING KNIFE GRINDER

It is poor economy to operate a mower with a dull knife, for it racks the machine and worries the horses. The Deering grinder is so arranged that the emery wheel sharpens two mower sections at once



No. 97

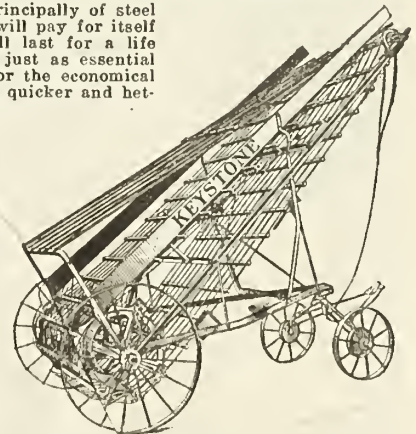
and preserves the correct bevel. For grinding out nicks the degree of pressure may be regulated by a simple adjustment which enables the operator to control the action of the wheel and the pressure. The knife is firmly held in place by clamps and may be easily removed from section to section of the wheel; grinds any make of knife. Price, \$7.50.

KEYSTONE WINDROW HAY LOADER

This loader is built principally of steel and is made to last. It will pay for itself in one season but it will last for a life time. A Hay Loader is just as essential as a side delivery rake for the economical handling of hay. It does quicker and better work and at the same time saves labor. The Keystone Loader enables you to keep ahead of the weather. The loader can be detached from the wagon by the driver simply pulling a rope extending to the top of the load which enables him to drive to the barn, while the next team picks up the loader.

With a Mowing Machine, a Side Delivery Rake, a Hay Loader and a Myers Hay Carrier, haying is made a pleasure instead of a drudgery. We can furnish you all of these at lowest market prices.

Price, \$105.00



No. 98

The Corn Binder has made possible a more economical use of the Corn crop. Hundreds of silos were filled this past year at a less cost per ton than could otherwise be done were it not for the use of the Corn Binder. With the high price of labor one of these binders will pay for itself in a very short time. It will successfully handle tall as well as short and tanged corn and will cut faster than several teams can haul to the silo. This machine cuts the corn and binds it in bundles of suitable size for handling. Circulars describing it more fully will be mailed on application. Price, \$225.00.

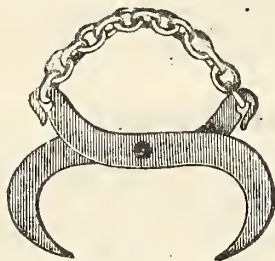
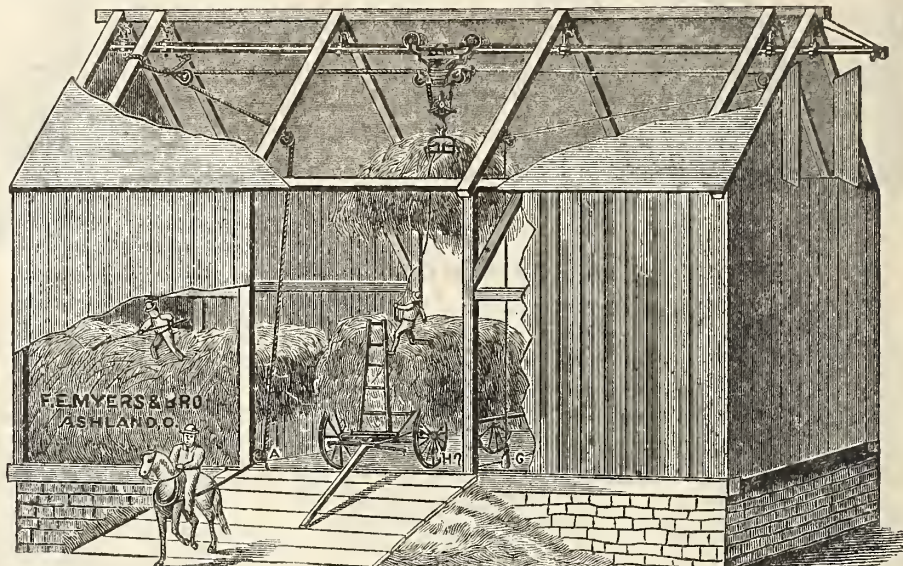
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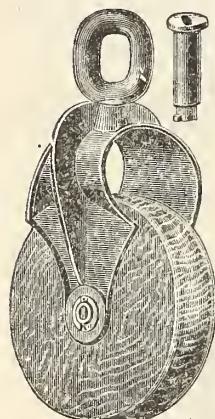
No Barn is Complete Without One of These

Reversible Steel Track Hay Carriers

These carriers for rod, wood or steel track are the most durable and easiest rigs to operate of any on the market. Anyone with a hammer and wrench can rig his barn as well as an expert carpenter. We furnish everything necessary for rigging any style of barn. If you will send us the length and height of your barn and style of ridge pole, we will name you price for complete job.



No. 99



No. 100



No. 101

PRICES

HORSE HAY FORK FIXTURES

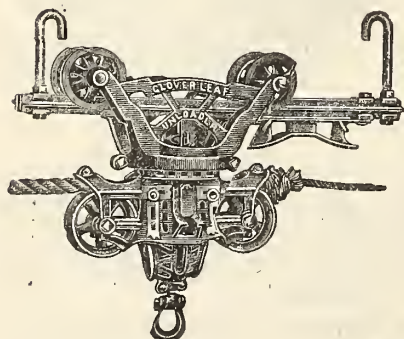
Nos.		
99	Steel Grapple, each	\$ 1.50
100	Knot Passing Pulleys, each	.75
101	25 in. Double Harpoon Forks, each	2.25
102	31 in. Double Harpoon Fork	2.85
103	Reversible Carrier, each	8.85
104	One Way Carrier, each (not shown)	8.85
105	Wood Track Carrier, each (not shown)	8.85
106	Steel Track, per foot (not shown)	.25
107	Jointed Hanger Hooks, per dozen	3.00
108	Floor Hooks, each	.25
109	Steel Hanger Hooks, per dozen	2.25
110	Malleable Iron Rafter Brackets, per dozen (not shown)	.90
111	Six Tine Grapple Forks, each	15.00
112	Four Tine Grapple Forks, each	12.00
113	Common Pulley, each	.60
114	Rope Hitch, each, (not shown)	.40



No. 111



No. 112



No. 103



No. 107



Fig. 109



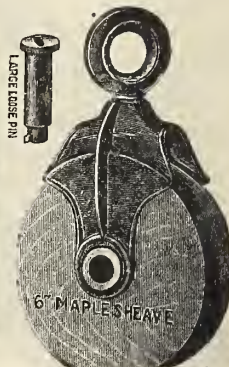
No. 108



90



No. 100



No. 113

Insurable Standard Cyphers Incubators and Brooders

Cyphers Incubator Company is the first to manufacture incubators and brooders that meet the requirements of the associated fire insurance interests and is the first company to be granted labels by the Fire Underwriters, covering inspected and insurable incubators and brooders built in conformity with the specifications of their expert engineers. Labels have been issued to Cyphers Incubator Company for Incubators and Brooders.

Cyphers Incubators are standard machines and the fire-proof lamp used, on both the incubators and brooders enables anyone to operate one of these machines without additional expense for insurance.

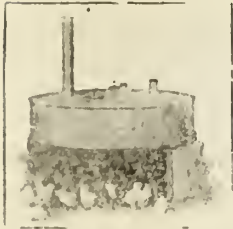
The electric machines are also very handy for those who are so situated that they have electricity, as it requires only a 16-candlepower current to run them. They are absolutely safe and require no attention except turning the eggs once a day.

PRICE LIST

	Eggs	
No. 0 Incubator, without nursery drawers	70	\$20.00
No. 1 Incubator, without nursery drawers	144	32.75
No. 2 Incubator, with nursery drawers	244	47.00
No. 3 Incubator, with nursery drawers	390	56.00
No. 1 Electrobator	60	24.00
No. 2 Electrobator	120	30.00
Electric Hover, without inclosure		16.00
Adaptable Hover		14.00
Style A Outdoor Brooder		23.00
Style B Outdoor Brooder		34.00

Complete Catalogue giving description and valuable information in regard to this complete line, will be mailed free on application.

Cyphers New Portable Hover (SELF-REGULATING, SELF-VENTILATING.)



The self-regulating feature used in these Hovers is the same high grade automatic thermostat such as the Cyphers people use on their regular line of brooders and incubators, which have given world-wide satisfaction.

It is absolutely self-ventilating, there being no "dead air space" underneath the brooding hover, which proves so disastrous in other brooders.

This Hover is for indoor use and has a capacity of seventy-five newly hatched chicks or of fifty chicks ten days to two weeks old.

No. 116 It will operate perfectly in any temperature above the freezing point. There is absolutely nothing about this Hover to take fire or burn up, as it is made entirely of metal, except the brooder curtain which is of woolen felt and is chemically fire-proofed. The lamp is readily removed for cleaning, etc., and the whole Hover can be moved about easily and picked up complete. Price \$14.00.

The Simplicity Combined Hatcher and Brooder.

No. 117



Whether you are new or old at the business you will be delighted with the ease with which you can turn eggs into chickens with the Simplicity Hatcher. And after you have hatched the chickens it is not necessary to buy a brooder in order to raise them, as the hatcher

does this also. With this combined little machine, you can get rid of the troublesome method of taking care of the old hen.

Can be easily cleaned by taking off the cover, rinsing or scalding out with hot water, and leaving it open for the sun to get in, which is the greatest of all sterilizers.

It is not necessary to have any applied moisture as the incubator takes care of this perfectly.

50 egg combined hatcher and brooder, with copper tank, \$15.00; 25 egg galvanized tank, \$12.00.

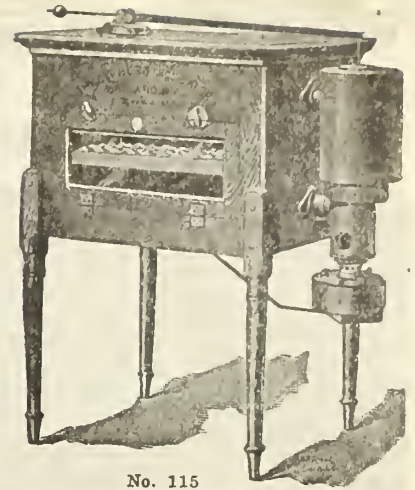
Roscco Slate Covered Shingles



No. 118

Do not use common wood shingles when you can buy fire-proof slate covered shingles at the same price. Old dry wood shingles are the most dangerous things that you can have on your place. Sparks from fires and fireworks of any kind have destroyed thousands of buildings which would have been saved if they had been covered with fire-proof shingles. These shingles are made from similar materials to our Roscco Roofing, but are slate covered. They come in two colors, red and green. Using half and half you make a much better looking building, which lasts longer and is also fire-proof against sparks. Cheap enough for any barn and good enough for any house. Samples mailed on request. Price \$7.50 per thousand.

Note: One thousand will cover 100 square feet, laid 4 in. to the weather the same as you would lay common wooden shingles.



No. 115

Roscco Roofing Paper

In rolls 108 square feet. Will cover 100 square feet. Packed with cement and large headed nails ready for laying.

Fire Retardant! Economical! Durable!

Keeps your stock warm and dry. Although one of the cheapest in price this is guaranteed superior to any similar roofing on the market today. It is made up especially for us under our name. We guarantee the 1-ply 5 years, 2-ply 7 years, 3-ply 10 years. Buildings covered with this roofing have withstood all damage from fire while unprotected buildings at a much greater distance have been burned. Although not absolutely fireproof this roofing will protect your buildings and yet is not expensive to use. This makes a most satisfactory covering for stables, poultry houses and similar constructed outbuildings as a siding as well as a roofing and keeps out wind and cold. Price, 1-ply, \$2.50; 2-ply, \$3.15; 3-ply, \$3.75.



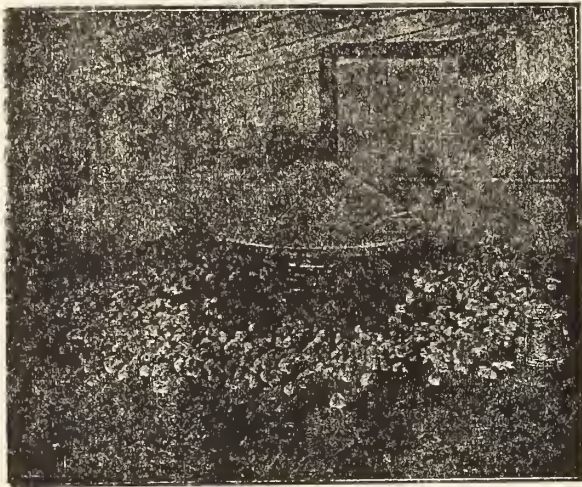
No. 119



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



The Newton Colony Brooder THE GREAT TIME, LABOR AND CHICK SAVER



The Newtown Colony Brooder has established itself on thousands of poultry plants as an important factor in the successful rearing of chicks.

It has been thoroughly tested by prominent poultrymen, and proved to be the most efficient and economical brooder they have ever used.

Why the Simplest, Safest, and Most Economical

Instead of spending time attending ten or more small lamp brooders, the poultry-raiser now rears 500 or 1200 birds around one Newtown Colony Brooder that burns coal, and automatically regulates its own temperature.

Instead of filling oil lamps, the poultryman now pours from two to four buckets of coal into the magazine every 24 to 48 hours, and shakes down the ashes once a day.

Instead of turning the wicks high or low by hand to give the birds more or less heat as the weather changes, you simply adjust the Regulator of the Newtown Colony Brooder at the start of brooding, and do not touch that Regulator again during the season.

Instead of increasing the cost of insurance on his buildings, taking chances of destruction of his plant, as a result of burning oil, coal-burning Newtown Colony Brooders are now employed which are just as safe as the kitchen range.

Instead of compelling the chicks to inhale fume-laden air—which is always very noticeable to the person who enters a room in which oil brooders are in operation—the birds now breathe pure air warmed by the coal-burning Newtown.

Eight cents a day buys all the coal necessary for the Newtown in normal weather—as compared with 35 cents a day for the oil consumed by other brooders to raise the same number of chicks.

No. 120

These brooders are made in three sizes as follows:

No. 6
For 200 chicks
\$17.50

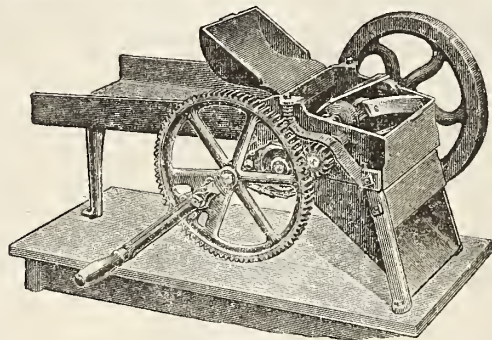
No. 7
For 200 chicks
\$21.00

No. 10
For 300 chicks
\$25.00

No. 11
For 500 chicks
\$30.00

No. 12
For 1200 chicks
\$38.50

SILVER'S "NEW MODEL" CLOVER CUTTER



No. 121

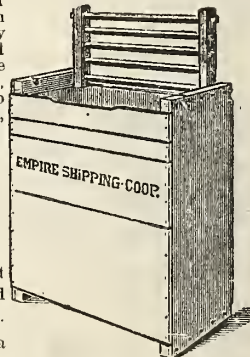
"NEW MODEL." Clover Cutter has four all-steel knives mounted on two knife heads on a steel shaft. The steel knives can easily be removed for sharpening, and the cutter-bar is adjustable and easily accessible, so that a perfect cutting edge can be assured at all times. The knives are 7 inches long.

With four 7-inch knives; weight K. D. 60 lbs. Price, \$12.00.

EMPIRE SHIPPING COOP

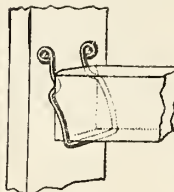
EMPIRE SHIPPING COOP

The Empire coop for shipping exhibition birds is without doubt the best one on the market; the lid is locked by simply turning the rod one quarter round and no key is required. These coops can be shipped knocked down if desired. Price, single coop, 12 x 22 x 25, \$1.00; trio coop, 18 x 22 x 25, \$1.25. Pen size, 24 x 22 x 25, \$1.50 each.



No. 123

WIRE ROOST BRACKET



No. 124

A roost bracket that is mite proof and cheaper than wood. Can be put up in a minute.

20c per pair. Post Paid

Sexton's Dry Feed Hopper

No. 122

Patented July 18, 1911

Pronounced to be the best Hopper offered. Simple in construction, easily operated and absolutely "Rat" and "Mouse" Proof.

The lower cover is so arranged that it is held up by locking the top cover of Hopper over same and by raising the top cover the lower cover will fall in place.

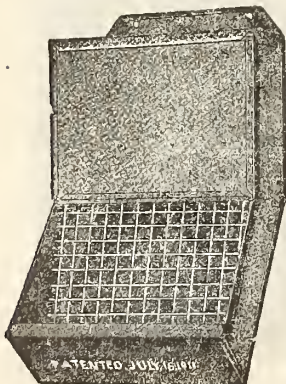
This Hopper is arranged to hang on the wall the desired distance from floor and never need be removed from the wall to be refilled. It is impossible to waste any feed as the pan at the bottom takes any feed that may be picked out and the last crumb can be used, therefore saving any waste.

Price No. 2, 3 qt. \$.85, 3 lbs.

Price No. 1, 12 qt. 1.25, 5 lbs.

Price No. 5, 24 qt. 2.00, 7 lbs.

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Open



Closed



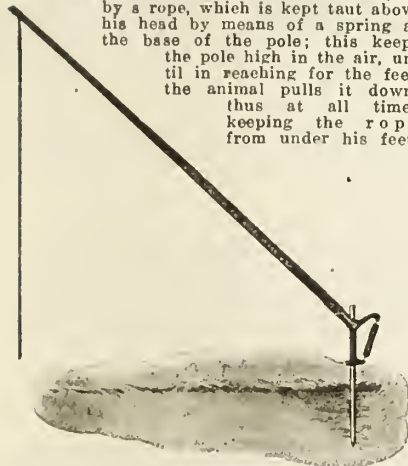
EVERYBODY KNOWS ROSS' SEED GROWS



WRIGHT'S ANIMAL TETHER

No. 125

The cut shows the advantages of this invention, which is designed to obviate the danger of horses and other animals becoming entangled in the rope with which they are fastened. It consists of a pole about ten feet in length, connected with an upright bar, upon which it turns in any direction. The animal is fastened to the end of this pole by a rope, which is kept taut above his head by means of a spring at the base of the pole; this keeps the pole high in the air, until in reaching for the feed the animal pulls it down, thus at all times keeping the rope from under his feet.



Price, \$3.25



WIRE EGG CARRIER. No. 126

The latest and best invention for handling eggs.

Capacity	Each	Capacity	Each
6 doz.	\$1.50	20 doz.	\$2.50
9 doz.	1.75	25 doz.	2.75
15 doz.	2.30	30 doz.	3.00

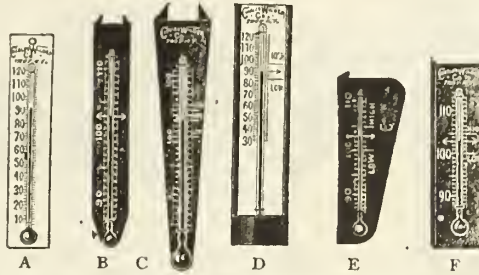


PILLING'S CAPONIZING TOOLS. No. 127

Poultrymen can double their profits by Caponizing their chicks. The operation is very simple—the instruction so full and explicit that anyone will be able to perform the operation. Capons are worth \$1.00 to \$1.50 more than cocks not Caponized. They are very much quieter in disposition.

Complete with instructions, \$2.50. In Velvet-lined case as per engraving, \$2.75. We send book, "Complete Guide for Caponizing," with every set.

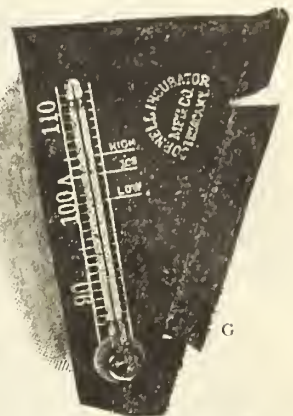
Parcels Post Egg Boxes, Chicken Boxes, Cheap Egg Boxes and Celluloid Rings. Ask for prices.



INCUBATOR AND BROODER THERMOMETERS. No. 128

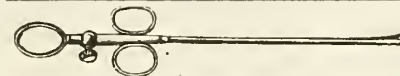
Every one warranted accurate, and will be mailed postpaid at prices named:

A, Brooder Thermometer	\$40	F, Cypher Incubator	\$60
B, Prairie State Incubator	.60	F, Regular Incubator	.60
C, Ertel Incubator	.60	G, Cornell Incubator	.60
D, Brooder Thermometer	.40		



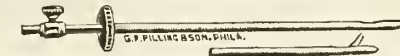
PILLING'S IMPROVED INSTRUMENT FOR OPENING OBSTRUCTED TEATS No. 129

The above instrument for opening obstructed (cows') teats. Any person of average intelligence can use it with perfect safety. We send it securely packed in neat box, with full instructions, postpaid, on receipt of price, 75 cts.



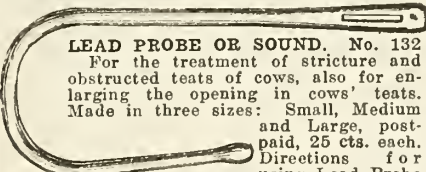
STRICTURE INSTRUMENTS. No. 130

For cutting strictures in cows' teats. Pilling's three-ring Stricture Cutter. Price, \$3.00.



PILLING'S PLAIN TEAT SLITER. No. 131

Illustration shows instrument both open for cutting and closed for inserting. Plated, \$1.50.



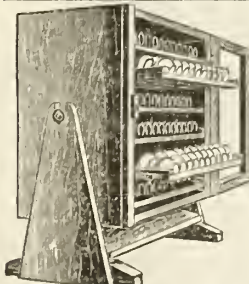
LEAD PROBE OR SOUND. No. 132

For the treatment of stricture and obstructed teats of cows, also for enlarging the opening in cows' teats. Made in three sizes: Small, Medium and Large, postpaid, 25 cts. each. Directions for using Lead Probe mailed with each one.

CELLULOID COLORED BANDS. No. 133

Easily adjusted and readily distinguished on account of their color. Price, doz. 20 cts., 100, \$1.00. Postpaid.

Tag your poultry and then be able to keep a correct record of breed and age.



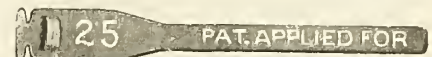
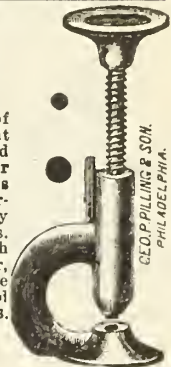
HOUGHTON'S WIRE EGG TURNER No. 134

This turner is made for the use of all Poultry Breeders, large and small, to hold and turn eggs which are to be used for hatching. They are just the thing to hold and turn eggs which are kept in storage for higher prices. If turned every day or two they will keep fresh for weeks. 1008 Egg Size, \$8.50, 504 Egg Size, \$5.75, 336 Egg Size, \$4.25.

FOR PARCEL POST RATES SEE PAGE TWO

PHILADELPHIA POULTRY MARKER No. 135

Do you keep a record of chickens? The different breeds, hatches, etc., should be kept. There is no better or quicker way than by this marker, as over 200 different marks can be made by punching web between toes. They are well made, with steel spring and cutter, nicely nickel plated. Made in two sizes. Sent postpaid on receipt of price, 25 cts. each.

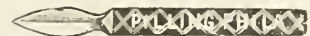


ALUMINUM TAG BANDS. No. 136

Made of one piece; two sizes; will fit any fowl; impossible to lose. In ordering give breed. Price, doz. 15 cts., 100, 75 cts.

OPEN PIGEON BANDS No. 137

Made from aluminum with rounded edges. Can be opened or closed sufficiently to fit different sizes of pigeons. We furnish them numbered from 1 to 100. Price, doz., 15 cts., 100, 90 cts. Postpaid.



FRENCH POULTRY KILLING KNIFE No. 138

Every poultry raiser should have one of our Killing Knives. They are made of finely tempered instrument steel, with nicked handle; will last a lifetime. It will be one of the best investments you ever made. Sent postpaid on receipt of 65 cts.

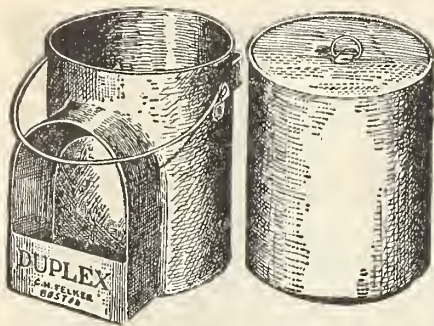


X-RAY EGG TESTER No. 139

The most practical egg-tester made, and is equal to any high-priced appliance. Price, 35 cts. Weight 4 ozs.

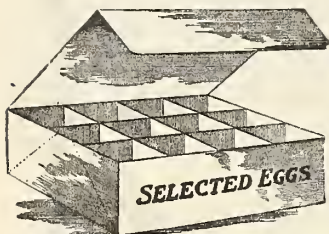


ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



Top Section slides into Bottom Section

THE DUPLEX FOUNTAIN. No. 140. The latest and most practical sanitary fountain on the market. This is a double fount, keeps the water clean and pure. Easy to fill. Easy to care for. Made in two sizes, 4 and 8 quarts. Try a Duplex. 4-Quart, \$1.00; 8 Quart, \$1.35.



PARCEL POST EGG BOXES

These are the safest and most practical receptacles on the market for sending eggs by parcel post. Made of heavy corrugated board which will

	No. 141	Each.	Doz.	100
stand more than ordinary hard usage.				
1 doz. size		\$0.05	\$4.45	\$4.00
3 doz. size		.08	.75	5.09

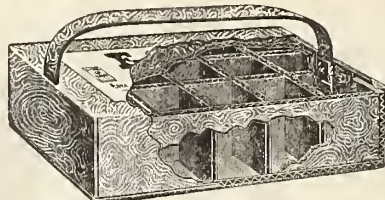
THE AMERICAN STANDARD OF PERFECTION No. 142

The finest illustrated poultry book on the market. Gives a complete description of all the recognized varieties of fowls. Price, cloth bound, \$2.00 leather bound, \$2.50.

CELLULOID SPIRAL LEG BANDS. No. 146

All colors for separating and marking different breeds and ages. State variety of fowls when ordering.

Prices: Doz., 20 cts., 25, 35 cts., 50, 60 cts., 100, \$1.00, 1000, \$6.00.



ERIE EGG BOX. No. 143. The best carrier for shipping setting eggs. Price, No. 1, for one setting, \$2.25 per doz. No. 2, for two settings, \$3.45 per doz.

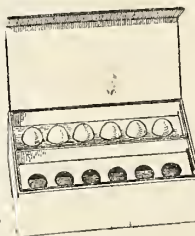
LITTLE CHICK BOXES. No. 143a. This is the latest up-to-date box for shipping little chicks. The box is made of corrugated board and is shipped flat, but it can be easily set up ready for use. The dead air cells protect the little chicks from cold. Made in 3 sizes, 25-, 50- and 100-chicks size.

	Weight	Size	Doz. boxes
25 chicks	6½ lbs.	12x 6x 5	\$2.35
50 chicks	14 lbs.	12x12x 5	2.85
100 chicks	22 lbs.	24x12x15	3.85

NON-BUST EGG BOX. No. 144

The best there is. Eggs practically indestructible when packed in these modern boxes. Prices as follows:

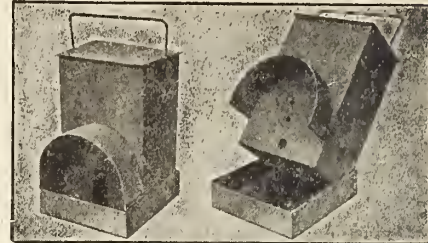
1 doz., each,	\$0.08;
doz. \$0.70;	100, \$4.00.
2 doz., each,	\$0.10; doz.
\$1.00;	100, \$7.25.
3 doz., each,	\$0.15; doz.
\$1.40.	4 doz., each,
\$0.20; doz.	\$1.75.
5 doz., each,	\$0.25; doz.
\$2.00.	



No. 144

ROUND BOTTOM GRIT AND SHELL BOX. No. 145

Round bottom—a feature absolutely new to grit and shell boxes. No clogging of grit and shell in the corners. Easily the most satisfactory grit and shell box ever placed on the market. An 'A-1' winner for 75 cts. 3 lbs. No. 2 size, 90 cts.



DROP BOTTOM FOUNTS. No. 148. 28-gauge galvanized steel. Easiest thing in the world to open and clean. Clasp by which the bottom is fastened fits over the small hole under the hood, preventing slopping of water when the fount is handled. Solid brass hinge-rod—no rust. 1 gal., 90c., 2 gal. \$1.20. 4 lbs.

THE PEERLESS BROODER FOUNTAIN. No. 149. It is the Ideal Fountain for small Chickens. It can be hung two or three inches from the floor; the smallest chicks can drink from it and they cannot scratch dirt into it or get wet themselves, as chickens do whenever possible. Price 35 cts. 1 lb.

NORWICH AUTOMATIC EXERCISER AND FEEDER

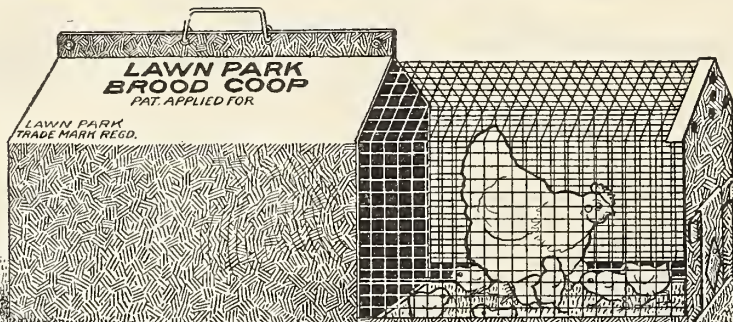
Made in Three Sizes

The Norwich Automatic Exerciser and Feeder, as its name implies, is an ingenious automatic machine for feeding and exercising poultry, and has, by force of its own merits in the short years of its existence, established itself as the standard method of feeding in poultry culture.

The machine consists of a Hopper of sufficient size to carry a week's supply of grain for flocks of corresponding numbers, and is fitted with an adjustable valve for regulating the feed. Working in conjunction with an Agitator Disc, the Feeder is operated by the birds rotating the Bait Bar, and the grain escaping from the Hopper rattles down the Deflector, is scattered on the floor or in the litter in a wide even circle, and the birds kept constantly at work and in motion while feeding.

PRICE LIST

No.	Actual Shipping Weight	
1	8 Qt. Hopper 13 lbs.	\$3.00
2	14 Qt. Hopper 15 lbs.	3.90
3	20 Qt. Hopper 20 lbs.	4.90
4	32 Qt. Hopper 25 lbs.	6.00



THE LAWN PARK COOP SAVES THE CHICKS. No. 147

Park Extended

The wire park pulls out like a bureau drawer and is made from heavy galvanized hardware cloth. The main coop is made from strong 28 gauge galvanized iron. Size of coop: when park is fully extended as shown in cut, it is 18 inches wide, 19½ inches high and 48 inches long. When park is closed it is 24 inches long.

A small door is provided to let small chicks only have full range as desired.

Protects the chicks from hawks, rats, weazels, vermin, cold, storms, etc. Gives perfect ventilation and sanitation. The park pushes in like a bureau drawer. Price, each, \$4.00. Three for \$11.00.



No. 150



EVERYBODY KNOWS ROSS' SEED GROWS



WYANDOTTE FEEDS AND REMEDIES

WYANDOTTE CHICK FOOD. Our Wyandotte Chick Food has saved the lives of millions of little chicks. This feed we placed on the market several years ago, in fact, we were the pioneers and the manufacturers of baby chick food. Some of our largest and best poultry keepers tell us that they could not get along without Wyandotte. One of our most noted judges at our recent poultry show made the remark that he had tried a great many kinds but there was nothing equal to Wyandotte. Anyone can mix common grains together and give it a name, but to make a chick food that is put together in the right proportions requires skill and to know how to do it. Beware of chick food that is shipped in mixed cars of grain, for such feeds can only contain what are known as milled feeds. Millets, charcoal and other similar ingredients can not be used for it is a violation of the Interstate Commerce Laws to ship such goods as milled feeds. Fowls may live on cheap grain, but little chicks will not.

Price, 25-lb. bag, \$1.50; 50-lb. bag, \$2.80; 100-lb. bag, \$4.50. If your local dealer does not handle it either send to us direct or ask him to.

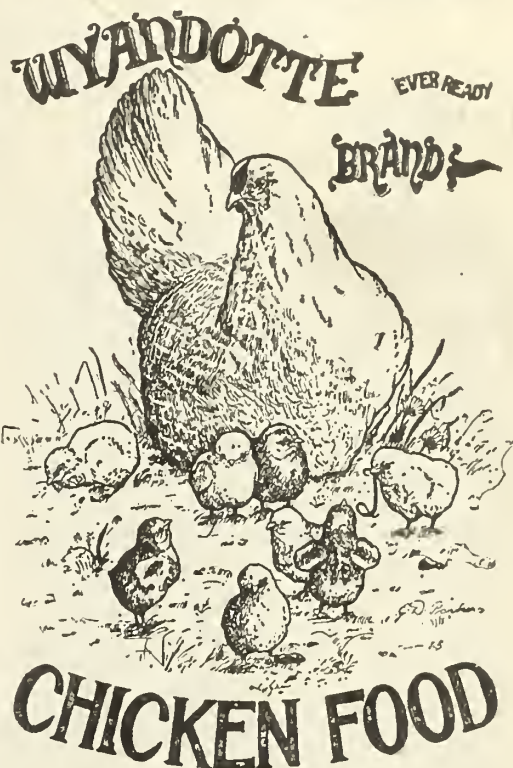
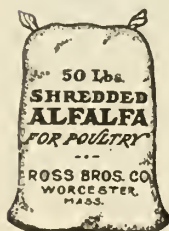
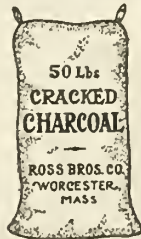
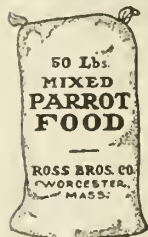
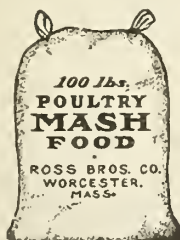
WYANDOTTE CHICK GROWER. This is designed to follow Wyandotte Chick Food. It contains practically the same properties only larger, and is just the food to feed chicks after they have reached the age where they do not need a little chick food. This will carry them through to maturity without any other grain. Skimmed milk (if it can be had) and beef scraps should also be fed, and plenty of fresh, clean water. 100 lbs. \$4.50.

WYANDOTTE SCRATCH FOOD. This can be used to follow Wyandotte Chick Grower, either as an every day food or more especially as an egg producer. It consists principally of whole grains such as wheat, oats, barley, corn, buckwheat, sunflower, Kaffir corn, charcoal and oil cake. Beef scraps can not be used in Scratch Food because they will crumble and go into flour and are lost, we therefore use the oil cake as it contains nearly as much protein as Beef Scraps. Feeding Wyandotte Scratch Food regularly will produce bone, muscle, and eggs, especially the latter. It contains no oyster shells or grit. No waste material. The fowls will always find something tempting for which to scratch. A small amount of this thrown into the litter after they have gone to roost at night will start them to work early in the morning. Keep the hens busy with Wyandotte Feeds and you will not lack eggs. Simply because a feed looks good to the naked eye is no sign it will produce eggs.

Price, 100-lb. bag, \$4.00. Will allow 10 cts. each for Scratch Food bags returned.

WYANDOTTE MASH FOOD. In extreme cold weather we recommend feeding a little hot mash just before night. At other times during the cold weather keep Wyandotte Mash Food before your fowls at all times. This can be best done by using the Sexton Dry Food Hopper. There is absolutely no waste in using one of these feeders and there is no waste material used in mixing Wyandotte Mash Food. This is sold under a guarantee to contain 16 per cent. protein, 3½ per cent. fat, 10 per cent. fiber. It contains those grains that are high in egg making qualities. You are safe in buying food with the name Wyandotte as we are the sole manufacturers.

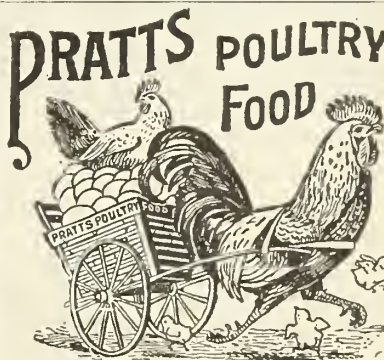
Price, 100 lbs. \$4.00.



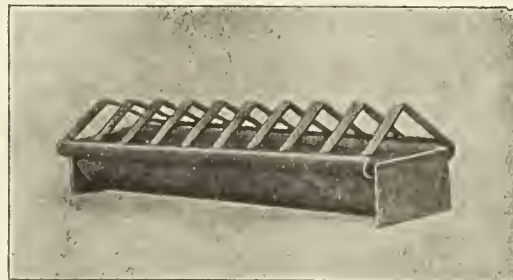
TRADE MARK REGISTERED

PRATT'S POULTRY AND CATTLE FOOD.

We have sold Pratt's Food for several years and always found it reliable and can recommend it with confidence to our customers. To get the best results it should be fed regularly. It keeps the poultry in good condition, and is indispensable in the stable. It keeps cows and horses in the pink of condition. Poultry Food, small size, 30 cts., large size, 60 cts., 12-lb. pails, \$1.75, 25-lb. pails \$3.00.



TRADE MARK REGISTERED



CHICK FEED TROUGHS No. 150

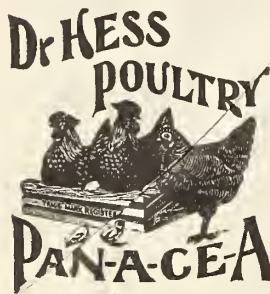
The only round chick feed troughs on the market. No trouble to clean them. The grate slides easily on and off — a feature not found in any other chick

troughs. The grate also serves as a handle, and is so slanted that the chicks cannot roost on it. Two sizes — 10 inch and 20-inch. 10-inch, 40 cts. 20-inch, 75 cts. 2 lbs.

All Prices on Poultry Feeds and Remedies are subject to market changes. This applies to both advance and decline.



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



DR. HESS' STOCK FEED. Milk makes the money, but Dr. Hess' stock food makes the milk. We guarantee Dr. Hess' Stock Food to increase the bone, muscle and milk producing value of your hay, grain, etc., sufficient to cover its cost many times over, besides keeping animals free from disease. 2½ lb. pkg. 30 cts., 7-lb. pkg. 60 cts., 25-lb. pail \$2.25, 12-lb. sack \$1.25, 100-lb. sack, \$7.50.

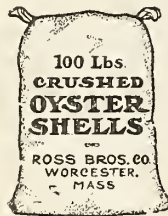
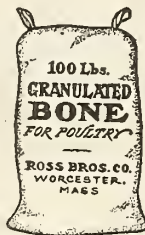
DR. HESS' POULTRY PAN-A-CEA. 1½-lb. pkg. 30 cts., 5-lb. pkg. 75 cts., 12-lb. pkg. \$1.50, 25-lb. pail \$3.00.

KAFFIR CORN. A good food for hens, chickens or pigeons. It is about the size of a very small pea. Market price.

PARROT FOOD. A mixture of whole seeds, especially designed for parrots. Lb. 10 cts., 3 lbs. 25 cts.

DRY GROUND FISH. For poultry. This is a great egg-producer, and takes the place of beef scraps. 100 lbs. \$5.00.

OLD-FASHIONED BEEF SCRAPS. These scraps are ground fresh for us, and do not contain any oyster shell or tankage, but are good fresh bone and meat. 100 lbs. \$5.00.



POULTRY MEAL. Is finely ground meat and blood, and is preferred by many to Beef Scraps, as it may be mixed with wet food and prevents waste. 100 lbs. \$4.75.

SHREDDED ALFALFA. This is the latest and best food for all kinds of poultry. It is alfalfa, pure, as can be had, finely ground, and should be mixed with other kinds of feed, and being very light, it makes a very nutritious food and is also an egg-producer. 100 lbs. \$3.25.

POULTRY GRIT. Cracked in three sizes. No. 2 for poultry; No. 3 for pigeons; No. 4 for small chicks. 100 lbs. \$1.00.

GRANULATED BONE. Fresh cracked bone, without any meat, will keep for any length of time. Should always be kept in a box where the hens can get to it. 100 lbs. \$4.50.

CRUSHED OYSTER SHELL. For poultry or chicks. 100 lbs. \$1.25.

KOW-CURE. Prevents and cures abortion and barrenness. Increases the flow of milk. It is for cows only. 60 cts., weight 2 lbs. \$1.20, weight 4 lbs.

COW RELIEF. Cures caked bags and sore teats. Should be in every stable. 75 cts. and \$1.50.

CALF CORDIAL. Sure cure for scours and other similar complaints. 75 cts.

PIGEON FOOD. A mixture of Kaffir corn, wheat, etc. Lb. 10 cts., 100 lbs. \$5.50.

SHERIDAN'S CONDITION POWDERS. These goods are known in every town and need no recommendations from us. Large size, regular \$1.00 size, our price, 85 cts., small size, 25 cts.

GLASS NEST EGGS. 5 cts. each, 30 cts. per doz.

FINE CRACKED BONE. For small chicks; made from best selected white bones, finely cracked and screened. 8 lbs. 60 cts., 50 lbs. \$2.60, 100 lbs. \$5.00.

EDIBLE BONE MEAL. For cattle. 10 lbs. 60 cts., 100 lbs. \$5.00.

BLATCHFORD'S CALF MEAL



Perfect Milk Substitute. Will raise veal calves at from one-third to one-quarter the expense of feeding milk. Raises better calves and saves the milk. You can't afford not to use it. Used and indorsed by experimental stations and farmers all over the world. It is absolutely the only milk substitute that contains all the elements necessary for bodily growth in the correct proportions. 100 lbs. makes 100 gallons of Perfect Milk Substitute. Price, per lb. 8 cts., 25 lbs. \$1.60, 50 lbs. \$3.15, 100 lbs. \$6.00.

WYANDOTTE DAIRYMAN'S CLEANER. An absolute necessity in every dairy. A powder, easy to use, and recommended by everyone that ever tried it. Price, 5-lb. bag 40 cts., 80-lb. keg \$5.20, 280-lb. barrel \$14.30.

WYANDOTTE EGG PRESERVATIVE

Enjoy summer prices on eggs in Winter. A harmless preparation in granulated form, easy to handle and economical to use. Will keep eggs 2 to 3 years in as good condition as when packed if directions are followed carefully. One quart will make four gallons of solution which is much superior to waterglass (Silicate of Soda). Price 25 cts., shipping weight 2½ lbs.



	Lb.	10 Lbs.	100 Lbs.
Canary Seed	\$.35		\$3.00
Hemp Seed .....	.18		1.50
Rape Seed .....	.20		1.85
Russian Sunflower Seed ..	.15		1.50
Fine Cracked Corn			3.50

In 100-lb. lots, bags 40 cts. extra.

CONKEY'S ROUP CURE. Cures roup in all its forms. It is simply put in drinking-water and the chicken takes its own medicine. 60 cts. and \$1.15.

CONKEY'S LICE POWDER. Kills Lice and other pests on poultry, horses and cattle. 60 cts. 1 lb.

THE EUREKA FLY-KILLER. Protects cattle and horses from fly pests and vermin. Sure preventive, perfectly harmless, easily applied and inexpensive. Eureka Fly-killer is a sure preventive that kills and drives away the worst of all pests—the Texas, buffalo and horn flies. It was born of a necessity; it meets an existing demand for an article of its kind, and that it meets it well and perfectly satisfactorily is attested by the numerous and grateful testimonials from farmers who have used it. Gallon, \$1.25. Weight, 9 lbs.

LAMBERT'S DEATH TO LICE. As its name implies, it is sure death to lice on hens and chickens. It is harmless to human and animal life. Should be used on setting hens; it will not injure the eggs or harm the youngest chick. 15-oz. size 25 cts., 48-oz. size 50 cts., 100-oz. size \$1.00.

LEE'S LICE KILLER is a liquid preparation; comes in tin cans; highly recommended. Qt. 35 cts., weight 3 lbs.; 2 qts. 50 cts., weight 6 lbs.; 4 qts. \$1.00, weight 10 lbs.

DR. HESS' INSTANT LOUSE KILLER. Kills lice. Put up in round cans with perforated top ready for use in one and three pound packages. The large size is the cheaper. You get three pounds for 60 cts., and, with the handle, it is just as convenient as the smaller size. Large size, 60 cts., weight 5 lbs.; small size, 25 cts.



PRATT'S LOUSE KILLER. Put up in one-pound size. It kills the lice. 25 cts.



WYANDOTTE ROUP CURE. A powder which is a positive cure for roup in its worst stages. Simply put a little in the drinking-water and the hens take their own medicine without any trouble whatever. We guarantee a cure or money refunded. Two sizes—25 cts., 50 cts., postpaid.

WYANDOTTE LICE POWDER. Kills lice on poultry and animals of all kinds. Lb. 25 cts., 3 lbs. 50 cts.

WYANDOTTE LIQUID LICE KILLER. Qt. 35 cts., weight 3 lbs.; 2 qts. 60 cts., weight 5 lbs.; gal. \$1.00, weight 10 lbs.

DR. DANIELS' VETERINARY MEDICINES

All reliable, and should be in every stable for cases of emergency.

	Each
Colic Cure	\$1.25
Cough, Cold and Fever Drops	60 cts. and 1.25
Horse Renovator .....	.60
Wonder-Worker Liniment .....	.60
Worm Killer .....	.60
Absorbent Blister	60 cts. and 1.25
Oster-Cocus .....	.60
Liniment Powder .....	.30 cts. and .60
Hoof-Grower and Softener .....	.60
Gall Cura	30 cts. and .60

All Prices on Poultry Feeds and Remedies Subject to Market Changes



EVERYBODY KNOWS ROSS' SEED GROWS



EXCELSIOR POULTRY FENCE

No. 151

Graduated from 1 1/4 in. to 4 ins. for chicks and also for poultry. Made of No. 19 wire.

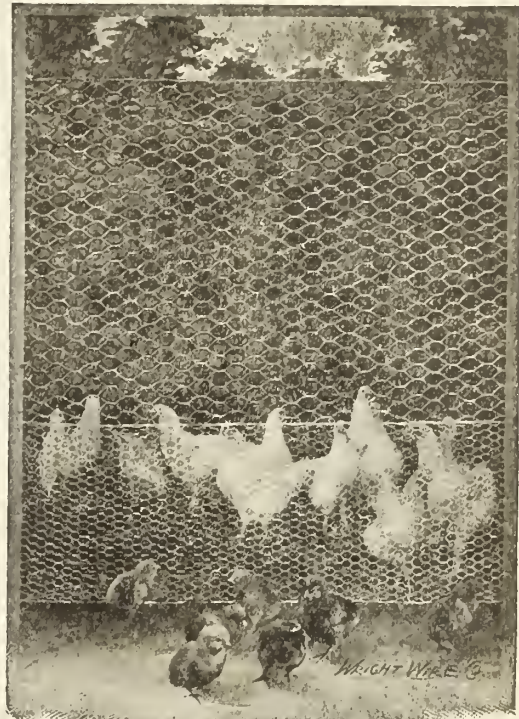
Height Inches	Number of horizontal wires	Approximate lbs. per 10-rod roll	Price per roll
48	19	33	\$4.25
60	22	38	4.75
72	25	43	5.25

THE AMERICAN FENCE TOOL.

No. 152



The best, and most useful all around fence tool. It is a hammer, staple and nail-puller, wire cutter, and splicing-tongs combined. The tool is drop-forged from tool-steel, highly and skillfully tempered. We guarantee each tool to be just as represented. Price, \$1.25. 3 lbs.



GALVANIZED POULTRY NETTING

No. 153

Combination 1 in. and 2 in. Mesh Netting. A popular method of erecting Poultry Netting for yards where small chickens are to be kept on one side and fowls on the other side. Erect a strip 18 or 24 inches wide of 1-inch Mesh Chicken Netting at the bottom and a strip 36 or 48 inches wide of 2-inch Mesh Poultry Netting above the finer mesh as illustrated in cut.

PRICE FOR ROLL OF 150 RUNNING FEET

No. 19 Gauge Wire		No. 20 Gauge Wire	
1 ft. 2 in. mesh	\$ 1.75	1 ft. 2 in. mesh	\$ 1.50
1 1/2 ft. 2 in. mesh	2.55	1 1/2 ft. 2 in. mesh	2.15
2 ft. 2 in. mesh	3.25	2 ft. 2 in. mesh	2.55
2 1/2 ft. 2 in. mesh	3.85	2 1/2 ft. 2 in. mesh	3.25
3 ft. 2 in. mesh	4.25	3 ft. 2 in. mesh	3.75
4 ft. 2 in. mesh	5.75	4 ft. 2 in. mesh	5.00
5 ft. 2 in. mesh	7.00	5 ft. 2 in. mesh	6.15
6 ft. 2 in. mesh	8.15	6 ft. 2 in. mesh	7.25
1 ft. 1 in. mesh	4.50	1 ft. 1 in. mesh	3.50
1 1/2 ft. 1 in. mesh	6.15	1 1/2 ft. 1 in. mesh	5.00
2 ft. 1 in. mesh	8.00	2 ft. 1 in. mesh	7.00
2 1/2 ft. 1 in. mesh	9.00	2 1/2 ft. 1 in. mesh	8.00
3 ft. 1 in. mesh	10.00	3 ft. 1 in. mesh	9.00

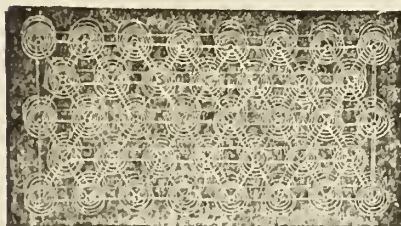
PERFECTION FLOWER BED BORDER



No. 154

Fits any shape or size of flower bed. No posts required. Bottom left straight to be inserted in the ground. Taken up in Fall and used from year to year. 16-inch height, 11 cts. per foot, 22-inch height, 12 cts. per foot.

Steel Wire Spring Cushions

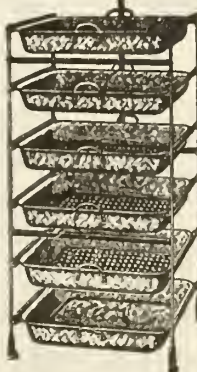


No. 155
ALWAYS DRY

Size	Price
Mowing Machine	\$1.75
14 in. x 15 1/2 in. Single Seat	1.75
14 in. x 19 in. Single Seat	2.00
14 in. x 22 in.	2.25
14 in. x 26 in.	2.75
14 in. x 28 in.-30 in.-32 in.	3.00
14 in. x 45 in.	3.50

NATIONAL OAT SPROUTER

No. 156



It pays to feed green stuff in winter

With this mechanical device green feed can be given to the poultry at all times. The tray contains five sprouting pans with a bottom drip pan. By feeding one pan full of sprouted oats each day and replacing this same pan with a fresh supply of oats, the new shoots from one to four inches high can be supplied to the fowls daily giving a never-failing supply of green feed.

Indorsed by all the poultry raisers and egg producers. Price \$5.00.

Cyclone Trellis

No. 157

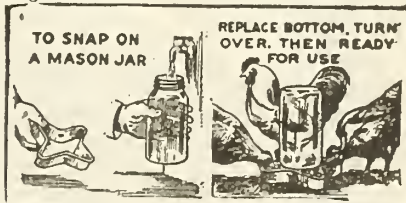
A most attractive and practical flower and vine trellis. Low priced and durable; the cost is trifling. 19 in. 12c ft.



Single Trellis

Star Chicken Fountain

No. 158



Something entirely new. Made of galvanized steel, will not rust, fastens to the top of any pint, quart or 2 quart Mason jar. Screws to the top of the jar by corrugations pressed in the metal. No electric welded fastenings to come off same as in the old style founts. Every chicken-raiser should have a dozen. Price, 15 cts. each, dozen \$1.50.

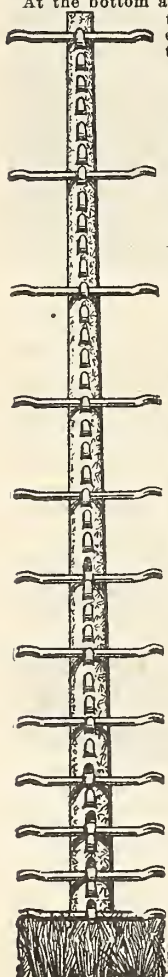
PERFECTION LAWN FENCE No. 159—42 inches high, 22 cts. per foot. A very strong, durable and ornamental lawn fence at a very reasonable price. Let us figure price of a lawn fence all put up with fancy steel posts.



American Poultry and Rabbit Fence — American Horse, Cattle and Hog Fence

AMERICAN POULTRY FENCE

Made of No. 11 and No. 14 Wire. This fence is much stronger than any other fence sold as a poultry fence, the Top and Bottom Bars No. 11 Galvanized Steel Wire, Intermediate Bars No. 13 Galvanized Steel Wire, Stay Wires No. 14 Galvanized Steel Wire. At the bottom are four spaces of 1½ inches each; the next five spaces are 2 inches each; the higher spaces graduated to 5 inches.



No. 100

This fence combines the same features entering into the manufacture of the American Farm Fence, viz.: the Hinge Joint, Tension Curve, amply providing for connection and expansion, and its adaptability to uneven ground, without cutting or mutilating the fence.

In comparing the price of this fence with other nettings don't forget that you are getting a fence as strong as the regular stock fence.

Design No. of	No.	Bars	Height	Weight	List Price	Per
					10 rods	Roll
	2158	21	58 in.	129 lbs.	\$11.90	\$8.75
	2053	20	53 in.	122 lbs.	11.30	8.50
	1948	19	48 in.	115 lbs.	10.70	8.25



No. 161



No. 162

American Steel Fence Posts

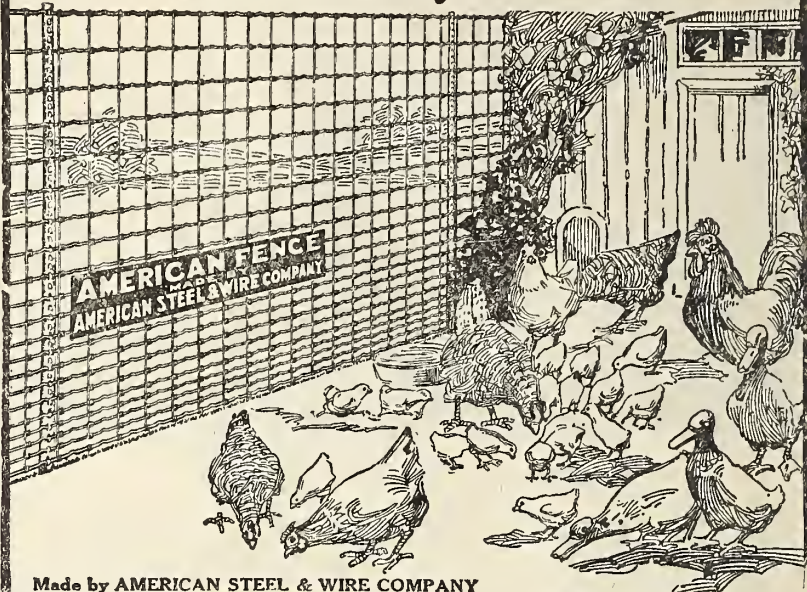
Too much cannot be said of the American Steel Fence Post. While the first cost of the steel post and the wood post is practically the same, the steel post can be set in about 5 minutes, while the wood post takes surely a half hour. With the American Steel Post the fence line can be burned off every year, thus getting rid of insects, weeds and rubbish. The clean farm grows the best and biggest crops and with the least labor and expense.

We carry a good stock, but the following are the best sellers:

7½ ft., No. 16, 80 cts. each.
6½ ft., No. 16, 70 cts. each.

Send for complete fence catalogue giving all details.

American Steel Fence Post For Poultry Yards



Made by AMERICAN STEEL & WIRE COMPANY

BARB WIRE.

2 and 4 point. Plain Twist Wire, without barbs. Ribbon Wire, Staples for putting up.

Can furnish the above in any quantity in full rolls at lowest market prices. The following prices we hope to maintain throughout the spring season, but on account of the uncertainty of the market, all prices on this page are subject to market changes. We also have this barb wire on 80-rod spools. Price \$6.00 each.

No. 161 Barb Wire, per lb.	.....\$0.06
162 Plain Twist Wire, per lb.	..... .06
163 Ribbon Wire, per lb.	..... .09
164 Staples, per lb.	..... .10

American Stock and Hog Fence No. 165

A SUBSTANTIAL FENCE plays an important part to the profitable side of farming and the neatness in appearance of a well put up wire fence adds more than double the cost of the fence to the price of the farm. They are to the farm in general what paint is to the buildings. PUT UP FENCES and let the hogs and other animals go after the waste places and turn into profit what would otherwise go to waste.

949 x 6 949 x 12

Dimensions contained in the above figures are explained as follows: Figure 9 refers to the number of horizontal wires; 49 refers to the height in inches of the fence; and figure 6 refers to the distance apart of the uprightbars.

The 949 is the one we sell as a general purpose farm fence and we have sold many carloads. This style we carry with the uprights 12 inches apart known as the 949 x 12, also 6 inches apart, known as the 949 x 6. The top and bottom wires of this fence are made of No. 9 wires with the intermediate wires of No. 11. The 949 x 12 serves as a perfect horse and cattle fence, but the 949 x 6 is much stronger as there are twice as many uprights, and on account of the small openings will keep out dogs, etc. The smallest space is at the bottom, 4 inches, then 4½ inches, 5, etc., as shown in the illustration. This smallest space in the 949 x 6 would be 4 x 6.

The above explanation applies to the following styles: We carry the following in 10- and 20-rod rolls.

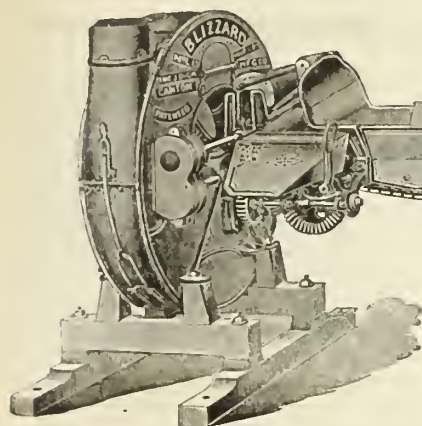
	Weight	Prices
832 x 6, 10-rod rolls,	85 lbs.	\$ 6.00 per roll.
832 x 6, 20-rod rolls,	170 lbs.	11.00 per roll.
635 x 6, 10-rod rolls,	85 lbs.	6.75 per roll.
635 x 6, 20-rod rolls,	170 lbs.	12.00 per roll.
949 x 6, 10-rod rolls,	120 lbs.	8.50 per roll.
949 x 6, 20-rod rolls,	240 lbs.	16.00 per roll.
949 x 12, 10-rod rolls,	92 lbs.	7.00 per roll.
949 x 12, 20-rod rolls,	184 lbs.	13.00 per roll.



No. 163



EVERYBODY KNOWS ROSS' SEED GROWS



4 Wheel
Mounting Truck

\$45.00.

Length of knives	Capacity	Power H. P.	Speed	Weight	Price with 30 ft. Pipe and Angle Deflectors
9-11 1/2 in.	4-6 tons	3 1/2-5	900-1100	700	\$172.00
11-14 in.	5-8 tons	4-7	800-1050	1100	193.50
13-16 in.	7-12 tons	7-10	650-1000	1300	250.00

Extra pipe for above in 2, 4 and 10 ft. lengths at 60 cts. per foot. Angle joints, 90 cts. each.

BLIZZARD BLOWERS with Traveling Table No. 166

This illustration shows the latest pattern Blizzard Cutter and Blower with self-feed table. The endless apron is composed of two steel chains on which are riveted hardwood slats. These chains are propelled and travel over sprocket wheels secured to a separate shaft directly in the rear of the lower feed roll. The bearings on this shaft are made adjustable, to take up the wear on the drive. The lower feed roll and the traveling table are driven from the same shaft, each by its own sprocket wheel and chain. This device reduces the strain on the drive chain to a large extent. This machine can be operated successfully with a smaller amount of power than any similar cutter on the market.

THE HARDER SILO

The American dairyman is too well informed to longer doubt that the profit of his business is dependent largely upon the contents of a silo, for he recognizes the fact that in order to make good he must use the returns from his farm.

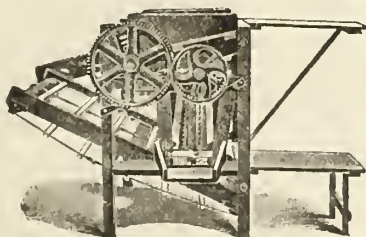
The Harder silo stands in a class by itself and is the only one recommended by the state and dairy authorities the country over. The rigid, strong door frame not only adds to the stability of the silo, but affords absolutely tight doors, which is necessary for all silage, and a continuous ladder. This ladder feature is a valuable addition to the Harder Silo and is not used in connection with any other. It is safe, strong, rigid and affords ample room for a sure footing. The mill work and general construction of all these silos is perfect. Every stave, no matter whether for an 8- or 25-foot silo, is built for that particular silo and has just the correct bevel with a heavy half-inch tongue and groove. As every piece is marked, there is no trouble whatever in putting up one of these silos.

Send for complete catalogue.



No. 167

THE CHICOPEE CORN HUSKER



No. 168

This is the most useful machine for the individual farmer for both stalk and picked corn. A six horse-power gasoline engine will run it to its full capacity and will husk from 25 to 50 bushels an hour, according to condition and quality of the corn. The CHICOPEE is guaranteed to husk the corn and separate the ears from the stalks without material injury to the grains of corn. Price, 4-roll, \$115.00; 6-roll, \$145.00.

Testimonial letter from a satisfied customer, written December 2, 1915.

Ross Bros., Worcester, Mass.

No. Grafton, Mass.

Dear Sirs:—The corn husker I bought from you last fall gave grand satisfaction. Would recommend it to anyone.

Very truly yours,

JOSEPH ADAMS.

Improved De Laval Cream Separators and Clarifiers for Both Hand and Power

The Standard Separator. A Money
Maker for Any Farmer

De Laval Cream Separators are guaranteed to be as represented and to fulfill all the claims made for them, being sold subject to the guarantee of their unqualified superiority in every material feature of separator practicability, inclusive of the production of a greater value of cream and of a greater quantity of butter of better quality than is possible through the use of any other separator or creaming system.

Improved, No. 4, actual capacity, 125 lbs. per hour, no stool. \$52.50; with stool. \$57.50.

Improved No. 5, actual capacity, 200 lbs. per hour, \$67.50.

No. 169

Improved No. 10, actual capacity, 335 lbs. per hour, \$ 85.00

Improved No. 12, actual capacity, 450 lbs. per hour, \$ 95.00.

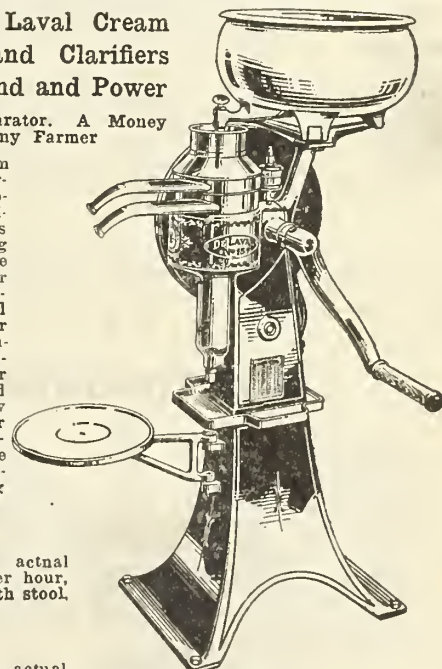
Improved No. 15, actual capacity, 675 lbs. per hour, \$112.50.

Improved No. 17, actual capacity, 900 lbs. per hour, \$130.00.

Improved No. 19, steam turbine, actual capacity, 675 lbs. per hour. \$145.00.

Improved No. 20, steam turbine, actual capacity, 900 lbs. per hour. \$162.50.

Send for complete catalogue.



De Laval Centrifugal Milk Clarifier.

No. 170

The De Laval Centrifugal Milk Clarifier thoroughly cleanses milk of all objectionable matter it may contain, whether in the milk as it comes from the cow or which gets into it in some manner when milking or afterward, and there is an important difference between the clarifier and the separator, in the case of market milk, in that absolutely no separation of the butterfat and other parts of milk takes place. Write for Price List.



No. 171

THE HINMAN MILKER MACHINE

The machine that saves time and reduces the cost of producing milk. One of these machines with one man will do the work of three men. It is the one helper that you know will stay with you and that will be on the job Monday morning. It can be operated by any kind of power.

Hinman Milker Machines have been in successful operation (and in some of the most noted stables at that) for several years. What this machine has done for others it will do for you.

The Hinman will soon pay for itself whether you have a small or large herd. You cannot afford to be without one.

It is only a matter of time when every dairy man with 6 or more cows to milk will have a milking machine of some kind. The question that you should decide is not shall I have a milking machine but what make will I buy.

There are on the market many machines that are very expensive and so complicated that ex-

perienced people cannot operate them successfully. These machines have caused a great deal of unfavorable criticism in the past but have yet to have a complaint from one of our customers who is using a Hinman Milker.

There are a few wearing parts in the operation of this machine and the up keep expense is so small it is hardly worth mentioning.

In the small space which we can devote to this machine it is impossible to describe it fully but complete printed matter will be mailed on request or the best way is to call and see us and talk it over with our man.

If interested drop us a line and we will have our man call and look your stable over and quote you price on the complete outfit all installed ready for use.



B. K. SOLUTION

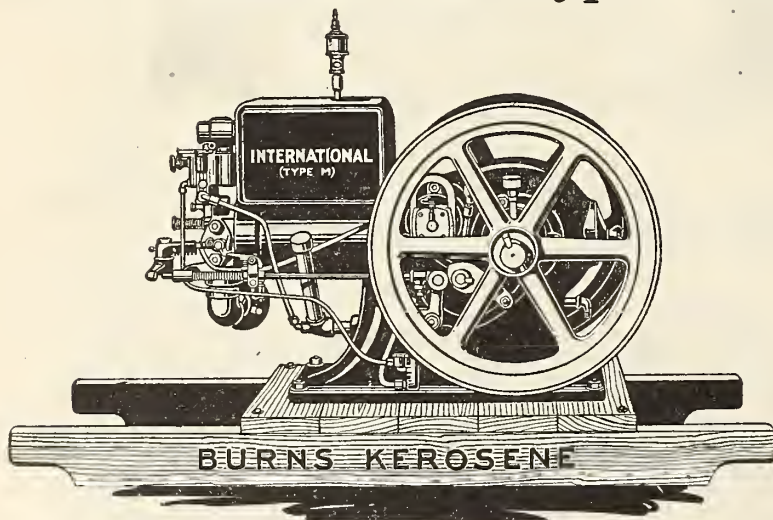
The Liquid Sterilizer used for Sterilizing Cans, Bottles, Separators, Milking Machines and Churns.

Also For
Contagious Abortion, Calves and Cows, Hogs and Poultry. Sold on an absolute Guarantee or Money Refunded.

1 qt.\$1.00 1 gal.\$2.50

International Type M Kerosene Engine

1½, 3 and 6-H. P.



No. 172

This is the most economical engine that you can buy. At the present price of gasoline, the cost of fuel is one of the most important questions in buying an engine. For that reason the International people have built this to operate with kerosene and in buying, it is well to consider this one important fact for the fuel consumed is the main item of expense in operating any engine.

The International Type M Kerosene Engine is not a cheaply constructed engine in any sense, but it is built to give long and continuous service and to stand up under hard usage. It is made as simply as possible. It can be operated by anyone. It has few parts so that repairs can be made easily.

Here are some of its good points:

When taken apart the engine is in ten units or groups of parts so that any trouble can be easily detected and remedied.

The base crank case and cylinder water-jacket are cast in one piece. This means perfect alignment of parts.

There are three openings into the crank case that give access to every part.

The crank case can be drained of oil. This means a clean engine.

The piston has four rings that hold compression perfectly.

The connecting rod has wide, thick hearings.

The mixer adjustments are so simple that the engine can be operated by an inexperienced person.
A safe engine to operate because the fuel is pumped to the mixer and all surplus returns to the tank.
Has thorough oiling equipment.
Can be mounted on any kind of track for transporting.
Ask for complete circular.

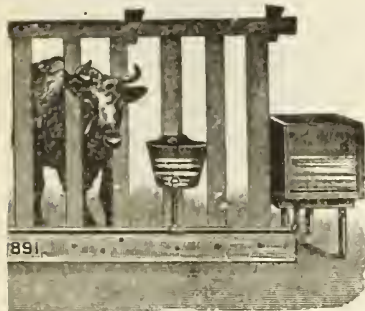


EVERYBODY KNOWS ROSS' SEED GROWS



Buckley's Patent Watering Device for Watering Stock in Stables

No. 173



Water where cattle can get it at any time during the day or night is a necessity in every first-class stable. With the Buckley Basins the water is always there and at the proper temperature. These basins are furnished both with and without valve. The valve is arranged at the bottom to allow the water to flow in from the supply tank and closes when filled which prevents sediment from getting into the pipe. Price, without valve, \$1.50 each. \$17.00 per doz. Weight 18 lbs.

Warriner's Patent Chain Cattle Stanchions

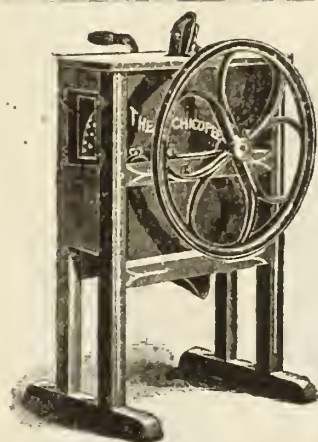
No. 174

These Fasteners are in use in a large number of stables and give universal satisfaction. The cut shows the device: a short chain secures the fastener to the top beam so that it suspends 1½ inches clear of the bottom sill. It is also fastened to the bottom sill by a chain to allow it a free and easy motion and rotation, giving the cattle freedom, yet be securely fastened. It keeps them clean and gives liberty of action. Price, each, \$1.75. Doz. lots, \$20.00.

The Star Steel Stanchion

No. 175

The cut shows the Star Steel Stanchion which has given the best of satisfaction. Absolutely sanitary, easily hitched and unhitched and very strong. We also carry this stanchion woodlined and we consider these the last word in steel stanchions. Price, plain steel, \$4.00.



The Chicopee Corn Sheller

No. 176

Has hardwood frame, well mortised and painted, large hopper adjustable to all sizes of ears, heavy fly wheel, separator which separates the ears from the shelled corn, and chaff sieve. Can be furnished with pulley which bolts to flywheel. Price, \$11.00.

The Victor Lever Cutter

No. 177

The best lever cutter made. Knife always up to its place. Prices: No. 1, \$1.50; No. 2, \$1.85; No. 3, \$7.50.



Star Automatic Drinking Fountain

No. 178

Can be used in connection with either wood or metal stanchions. The drinking cup for the up-to-date stable. These come drilled and threaded for one inch pipe and are furnished with valve controlled by the animal.

Price, \$2.75 each



Horn Trainers



No. 179

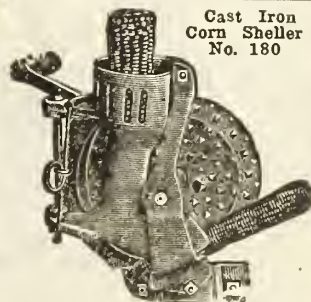
(Patented October 2, 1906)

Symmetrical horns add to the selling value of an animal. By the timely use of a horn trainer a perfect incurving horn is obtained. Breeders should keep a set of four sizes on hand, enabling them to fit at any time any animal of the Jersey or Guernsey breeds. If a single pair only is desired, measure the horns from tip to tip and order the smallest size that will bridge the span when fully opened.

STOCK SIZES

No. 1 Closes to 5 ¾ inches.	Opens to 7 ¾ inches.
No. 2 Closes to 7 ¾ inches.	Opens to 9 ¾ inches.
No. 3 Closes to 9 ¾ inches.	Opens to 13 ¾ inches.
No. 4 Closes to 11 ¾ inches.	Opens to 15 ¾ inches.

Sent postage prepaid for \$6.35 for a set of four sizes, or \$1.75 each.



Cast Iron
Corn Sheller
No. 180

For convenience and general utility this little corn sheller will be found one of the handiest tools imaginable. It is so simple that there is absolutely nothing about it to get out of order, and so strong that it will not break. Net price, \$1.85. Weight 15 lbs.

The Banner Root and Vegetable Cutter



No. 181

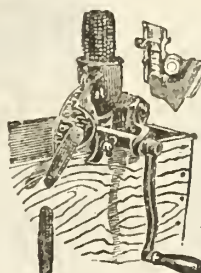
The "Banner" root cutter contains features found in no other machine. It has a self feeder; separates the dirt from the cut feed and leaves the cut food in such condition that the stock cannot choke.

No. 20 For hand power.. \$11.00
7 For hand power.. 6.50
35 For hand power.. 17.00

The Red Chief Corn Sheller

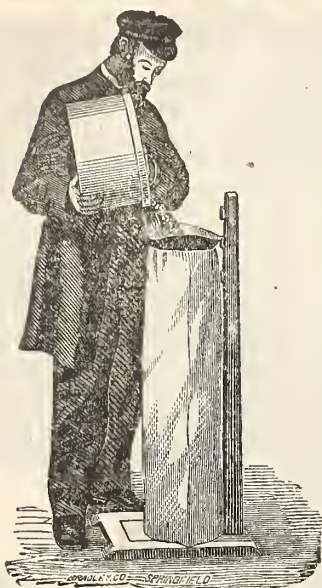
No. 182

A substantial but low priced corn sheller, made of iron, painted red. Can be attached to a barrel or box. Adjustable for large and small ears. Has attachment for shelling pop corn. Price, \$2.25.

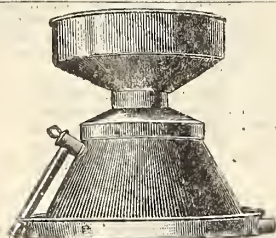




ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



BAG HOLDER. No. 183. Patent Bag Holder and Funnel Combined. Is the simplest and most convenient arrangement for holding bags when being filled with grain or anything ever put in bags. \$3.50 each.



No. 184

THE IDEAL MILK COOLER

The Ideal Milk Cooler and Aerator does what no other cooler does, namely, thoroughly cools the milk and at the same time aerates it perfectly, so that it is ready to ship or peddle at once. No time is lost in stirring morning's milk and getting it ready for customers, as it is cooled as fast as milked.

No. 2. Suitable for 10 to 15 cows. Price \$8.00.

No. 3. Suitable for 25 to 40 cows. Price \$9.00.



No. 185

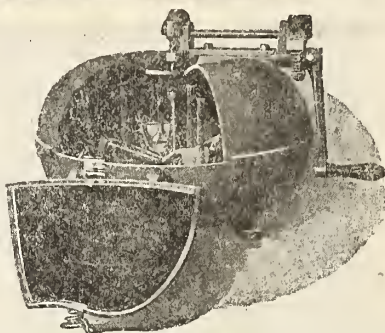
FLAT WIRE BOTTLE CARRIER

New Style and Improvement. 6 1-qt. Bottle Carrier, \$1.50. Weight, 3 oz. 8 1-qt. \$2.00.



WIRE BOTTLE CARRIER

No. 186
6 1-qt. Bottle Carrier, \$1.25.
4 1-qt. 2 pint Bottle Carrier, \$1.25.
4 1-qt. Bottle Carrier, \$1.00.

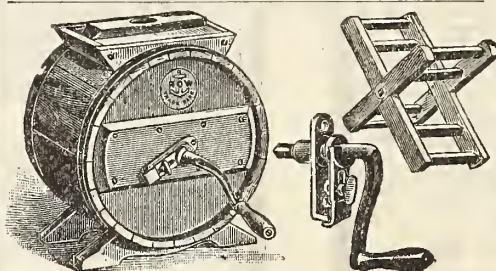


No. 187

20th CENTURY BABCOCK HAND MILK TESTER

Complete with glassware.

6-bottle	.....	\$13.00
8-bottle	.....	14.00
10-bottle	.....	15.00
12-bottle	.....	16.50

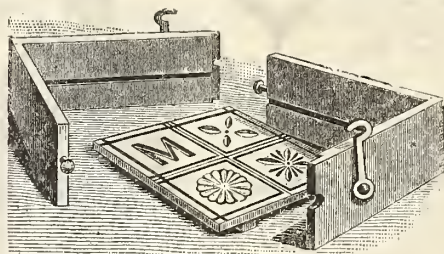


No. 188

VARNISHED CYLINDER CHURNS

Designed for those having a small dairy.

No.	Capacity	Pine	Cedar
0	1 gal.	\$2.65	
1	2 gal.	3.00	\$3.50
2	4 gal.	3.50	4.00
3	6 gal.	4.25	4.75
4	8 gal.	5.00	

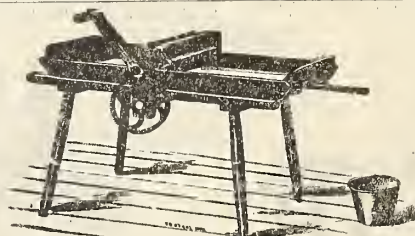


No. 189

BLANCHARD BUTTER MOULD

Initial engraved 25 cts. extra. Weight 1 lb.

One-half pound	.....	\$1.00
One pound	.....	1.25
Two pounds	.....	1.50



WATER'S BUTTER WORKER No. 190

No. 0, 1 to 15 lbs.	\$ 9.75	No. 3, 5 to 50 lbs.	\$15.75
No. 1, 5 to 30 lbs.	11.05	No. 4, 10 to 80 lbs.	16.25
No. 2, 5 to 50 lbs.	12.35		

The Bell Barrel Churn



No. 191

This churn is made of the best quality white oak, thoroughly seasoned and kiln dried, having galvanized iron rim in head making it as strong as a barrel with two solid heads.

No churn works so easily, no churn cleaned more quickly, having no dashers nor paddles. The churning is done by revolving the churn, which agitates the cream and makes the butter separate from the milk.

0, 6 gal. will churn 1 to 3 gal. cream.	
Weight, 27 lbs.	Price \$8.00
1, 10 gal. will churn 1 to 5 gal. cream.	
Weight, 33 lbs.	Price \$9.00
2, 15 gal. will churn 1 to 7 gal. cream.	
Weight, 38 lbs.	Price \$10.00
3, 20 gal. will churn 2 to 10 gal. cream.	
Weight, 46 lbs.	Price \$11.00
4, 25 gal. will churn 2 to 12 gal. cream.	
Weight, 73 lbs.	Price \$14.00
5, 35 gal. will churn 3 to 17 gal. cream.	
Weight, 80 lbs.	Price \$16.00

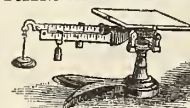


Dairy Scales

No. 192

Graduated in 1 oz. weighs 30 lbs. Made especially for dairymen. Has adjustment for taking out weight of pail. Price, \$4.00. Weight, 4 lbs.

FAIRBANK'S DAIRY SCALES No. 193



Indispensable for the dairy; has porcelain top; weight from 1/4 oz. to 25 lbs. Net price, \$10.50.



EVERYBODY KNOWS ROSS' SEED GROWS



ROCHESTER MILK PAILS No. 194
Plain Span Top Dairy Pails. Made
from heavy tin. 12 qts., \$1.00; 14 qts.,
\$1.50.



No. 195
J. I. C. Stable Pail
The best table pail on the market.
Made of oak with iron strap running down
the side and heavy iron bail. Price, 90
cts.
3 Hoop Iron Army Pail60 cts.
3 Hoop Galv. Army Pail75 cts.
10-qt. Light Galv. Pails55 cts.
12-qt. Light Galv. Pails60 cts.
14-qt. Light Galv. Pails65 cts.
No. 850, 14-qt. Heavy Galv. Pail..\$1.05



No. 196
lbs. each. Price, \$2.00 each.

The New Dover Sanitary Milk Pail

The Breast on
our Pail has a
guard which ab-
solutely prevents
dirt from falling
from the beast
into the pail.

Capacity 14
qts.; diameter
bottom, 9 3/4 in.;
diameter t o p,
12 1/4 in.; extreme
height, 13 3/4 in.
Net weight, 4 1/2
lbs. each. Ship-
ping weight, 6

MILK CANS
No. 197
No. 2, S. H. Cans,
\$1.50 each; per doz.
\$16.20.

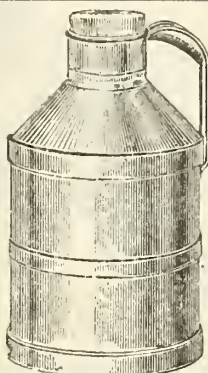
**THE HEALTH
MILK BOTTLE
CAPS. No. 198**
All caps, other
than the Health Cap
must be removed
with a fork, knife or
some sharp instru-
ment.

They can not be



removed with the
thumb and finger.
When once released
the old-style cap is
almost invariably
thrown away, leaving
the contents of the bot-
tle exposed to odors, and in no way meet-
ing the objectionable features of an open
receptacle. It will fit any standard milk bot-
tle. It makes sealing and opening of bottles
easy. Bottles can be kept sealed at all times.
Keeps milk free from all odors. It is the
most convenient cap on the market.

Prices Bbl.
Per M 10 M lots (50 M)
Health\$.50 \$4.50 \$20.00
37046 3.40 16.00
Flipper50 4.00 16.00
Weight, 3 lbs. Barrel lots printed, no
extra charge.



Gem Combina- tion Milk Bucket With Removable Strainer

No. 202

It has no
equal in its
simplicity.

Made of the
best IX Tin,
with Steel
Strainer
Frame. The
Gem Combina-
tion Milk Bucket can be used for milk with
strainer, or the strainer can be removed by
a single turn of the latch and the bucket
used for any other purpose. The Strainer
is constructed of Steel, with Fine Brass Wire
Cloth and can be readily converted into a
cloth or muslin strainer by simply covering
the frame with the cloth and inserting the
frame in place.

Prices, 10 quarts, each 75 cts., 12 quarts,
each 85 cts. 14 quarts, each 95 cts. Weight
3 lbs.

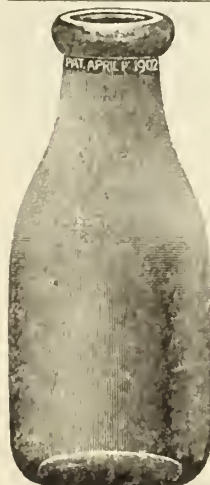


BLANCHARD PRINT BUTTER CARRIER No. 203

This Carrier is designed for use of dairy
men who deliver their butter direct to the
consumer. They are also used in shipping
butter by express. Trays are made to fit but-
ter moulded in the Blanchard or Combination
No. 6 Moulds. They are well made and very
strongly iron bound. Prices: 16 lb., each
\$3.00; 24 lb., each \$3.50; 32 lb., each \$4.00;
40 lb., each \$4.25. Fitted with Ice Box, 75
cts. extra.

BUTTER BOXES No. 204

The Du-
mas square
box holds
five lbs.;
the only
box that
butter can
be turned out of and left in good shape.
Price per dozen, all papered, 90 cts. We
also have the five pound round boxes at 85
cts. per dozen.



No. 201

MILKING TUBES FOR SORE AND OBSTRUCTED TEATS AND HARD MILKING COWS No. 199

Directions—The long, rounded end of the tube is inserted in the
orifice of the teat, when the milk will flow without the use of the
hands. It is best to wet the tube with a drop of milk or water before
using. Remove the tube when milk ceases to flow. If, in some cases,
the obstruction is further up the teat than can be passed by the
regular length, you should have a longer tube, and as it can be made
any length, this answers for all purposes. Silver plated, 2 1/2
in., 3 in., 3 1/2 in., all sizes, 25 cts. each, postpaid.

No. 200
FARMER'S SCALES (Not shown.) We offer for the use of farm-
ers and dairymen and housekeepers, a convenient and low-priced scale,
warranted accurate, weighing from 1/2 oz. to 240 pounds. Single
Beam, \$5.00; Double Beam, \$6.00.

THE R. B. MILK BOTTLE
This bottle is a great improvement over any other style of bottle
made, from the fact that it has no corner for the dirt to stick in. The
bottom inside being made round, it cleans very easily. We have them
made expressly for us, and every bottle is extra quality glass, and
stamped on the side: "This bottle to be washed and returned."

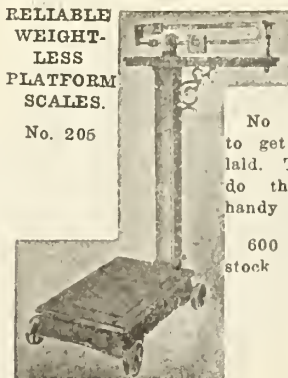
Prices
Two quartsPer doz. \$1.75 Per gross \$20.00
One quartPer doz. .90 Per gross 9.00
PintPer doz. .75 Per gross 8.00
One-half pintPer doz. .65 Per gross 7.00

RELIABLE WEIGHT- LESS PLATFORM SCALES.

No. 205

No loose weights
to get lost or mis-
laid. The two beams
do the work. A
handy farm scale

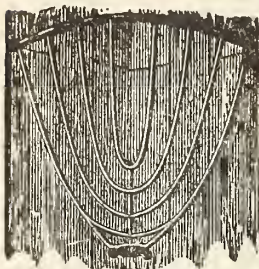
600 lbs. only in
stock



Capacity 600
Lbs. Platform 16 x 22 1/2
List Price \$25.00
Net Cash Price \$23.00



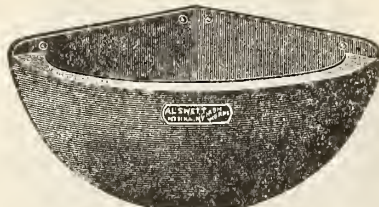
ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



CORNER RACK

No. 206
Price, cast-iron, \$2.00; wrought iron, \$2.25.
Wrought is much better.

CAST IRON FEED BOX



No. 210
Price, \$2.00. Weight 31 lbs.

LANTERNS

No. 214

Will give a good light and are absolutely safe to carry.

No. 2 Blizzard. Price, \$1.30. Weight, 3 lbs.

Deitz, Jr. Wagon Lamp. Conforms to State Light Law, \$1.50.

No. 0, Clipper, 85 cts.

No. 2 Clipper, \$1.05. Weight, 3 lbs.

Milkmen's and Doctors' Driving Lanterns.

No. 18, Jap., \$2.50; No. 18, Nickel, \$3.00.

Weight, 3 lbs.

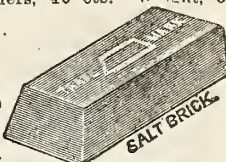
Lantern Globe, No. 0, 20 cts. each; No. 2, 20 cts. each; Bull's Eye, 25 cts. each. Weight, 1 lb.



Cattle and Horse Salt Feeders

No. 207

This method of feeding pure salt to stock has been adopted in the largest stables and grows in favor daily. Salt brick, 20 cts. each; weight, 5 lbs. each; \$2.00 per doz. Salt brick holders, 40 cts. Weight, 3 lbs.

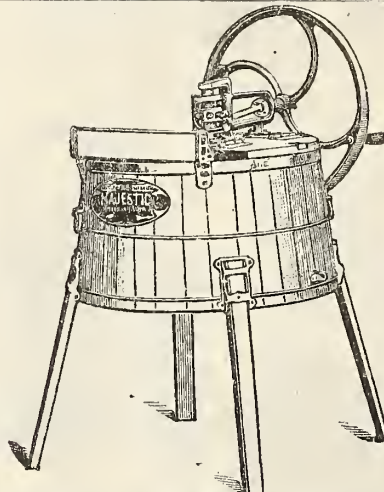
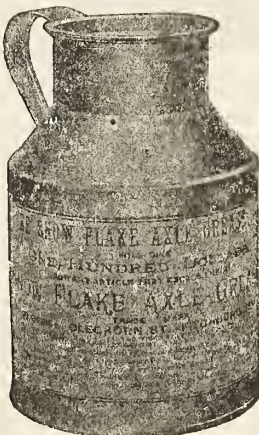


ROTO-SALT BRICKS (Round) Bricks, each 20 cts. Weight, 5 lbs. Doz. \$2.00. Holder 40 cts. Weight 3 lbs.

AXLE GREASE

No. 208

Snowflake Grease, once used, always used. Convenient and handy. 1-qt. can, 40c each. Weight, 2 lbs; 2-qt. can, 75c each. Weight, 4 lbs.; 1-qt. can, \$1.10 each.



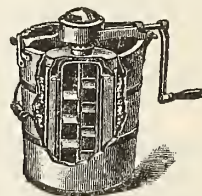
No. 211

MAJESTIC ROTARY WASHERS

Ball bearings and balance fly-wheel almost make it run itself. Price, \$11.50.

WHITE MOUNTAIN ICE-CREAM FREEZER

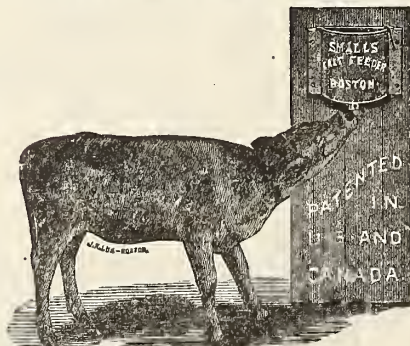
No. 212



PRICES

1 qt.	\$2.85	6 qt.	\$ 6.50
2 qt.	3.75	8 qt.	8.50
3 qt.	4.25	10 qt.	10.60
4 qt.	5.00	12 qt.	13.00

SMALL'S CALF FEEDER



No. 213

The original calf feeder. Price, \$4.00. Weight, 4 lbs.

BULL RINGS

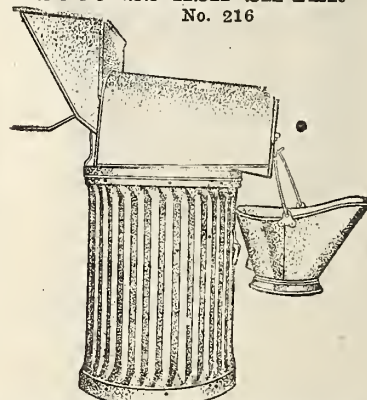


No. 215

Price, copper, 2 1/2 in. 40 cts., 3 in. 65 cts., postpaid. Cannon metal, heavy, 3-in., \$1.50.

SUCCESS ASH SIFTER

No. 216



Keep the Home Fires Burning but sift your coal and save every piece.

Rightly named, for it does the work in half the time with no dust or noise and with very little work.

No. 1. Family size \$5.50

No. 2. Large furnace size 7.50

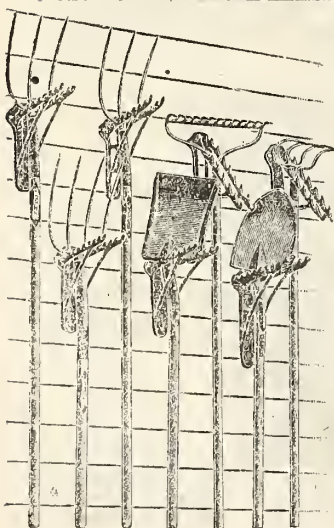
No. 1. Complete with galvanized ash can 8.00

Galvanized Ash Cans, 18 x 26, \$3.65.

HAGER TOOL RACK

No. 209

Designed for store or stable. Made in three styles for shovels, hoes or forks. Combination racks for stores can be used for all. Price, 50 cts. each. Weight, 3 lbs.

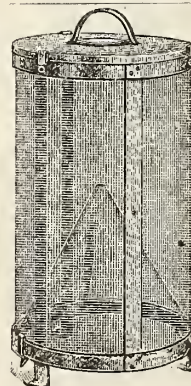


Rittenhouse Out-Door Fly Trap

No. 217

Is 19 inches high and 11 inches in diameter. The framework is galvanized sheet metal covered with black painted wire cloth.

One of the best traps yet invented for ridding the stable of flies. Price, \$1.25 each.



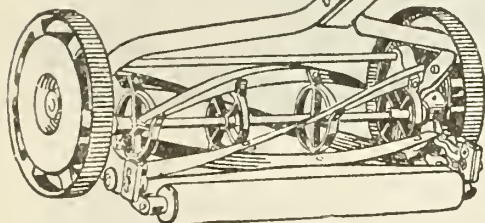


EVERYBODY KNOWS ROSS' SEED-GROWS



The Knollwood, Jr., Ball Bearing High-Wheel Spade-Handle Lawn Mower.

We offer our customers this machine, not as an experiment, but as a guaranteed article, one that we have tested ourselves during the past 7 years, and know what we are talking about. This machine runs on ball-bearings (and all first-class machines ought to). The balls are of the very best quality and will last for years. They are enclosed in



No. 218

ly on a side hill or on narrow borders. We agree to take back any machine that is not satisfactory, after a fair trial. While this machine is the best one on the market for private homes, it is especially adapted for parks, cemeteries, and large lawns, and to that class of buyers we will make special prices in quantities.

14-in. \$12.00, 16-inch \$12.50, 18-inch \$13.00, 20-inch \$13.50.

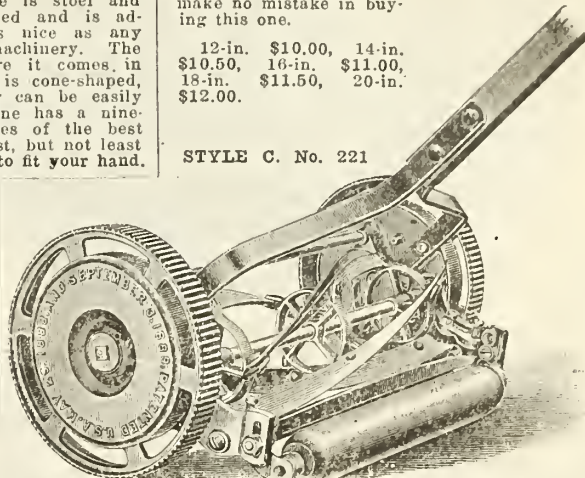
steel cups, which protect them from wear. The main axle is steel and lathe fitted and is adjusted as nice as any high-priced piece of machinery. The end of the axle where it comes in contact with the balls is cone-shaped, and any possible wear can be easily taken up. The machine has a nine-inch wheel, four knives of the best quality of steel, and last, but not least a handle that is made to fit your hand. (See the spade handle in cut.) After giving you the best mower it is possible for us to get, we have put on to it a handle we have all been looking for. With this Spade Handle the operator has perfect control over the machine and can handle it perfectly.

Rossmoyne Lawn Mower Nine Inch Wheels

This machine has four knives, high wheels. It runs on ballbearings of the same quality as those used on other machines. It is a first-class, medium-price mower. All parts are fitted on a lathe, and we warrant every machine we sell. For a medium price machine, you will make no mistake in buying this one.

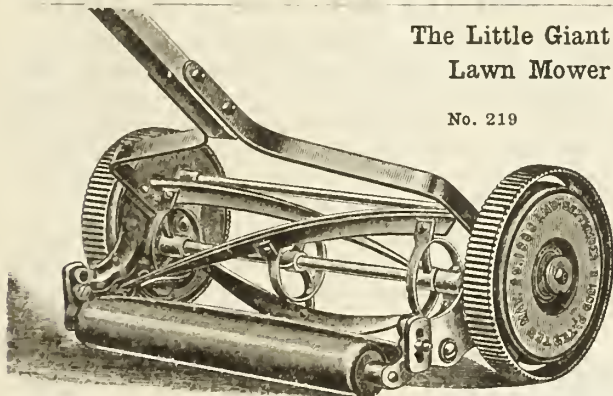
12-in. \$10.00, 14-in. \$10.50, 16-in. \$11.00, 18-in. \$11.50, 20-in. \$12.00.

STYLE C. No. 221



The Little Giant Lawn Mower

No. 219



For the benefit of those who want a low-priced mower or those who have but a small amount of grass to cut, we offer this machine, and we think we are safe when we state that it is good as one-half of the mowers sold as a high-grade machine, and being a light-running mower, is preferred by many to the higher grade styles. We warrant every machine and have never had to replace one. 8 in. wheel.

Net prices, 12-in. \$6.00, 14-in. \$6.25, 16-in. \$6.75, 18-in. \$7.00.

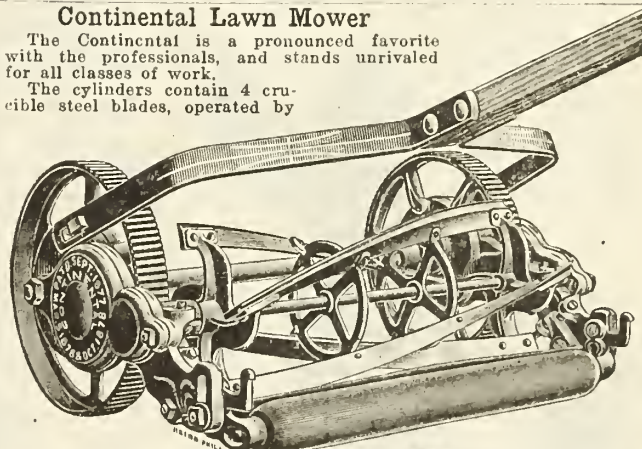
cut. The tempered spring steel lower knife is self-sharpening until Wheel, 9 1/2 inches, 4 Tempered and Hardened Crucible Steel Blades.

	List Price	Net Price
15 in.	\$25.00	\$20.00
17 in.	28.00	23.80
19 in.	31.00	25.00

Continental Lawn Mower

The Continental is a pronounced favorite with the professionals, and stands unrivaled for all classes of work.

The cylinders contain 4 crucible steel blades, operated by



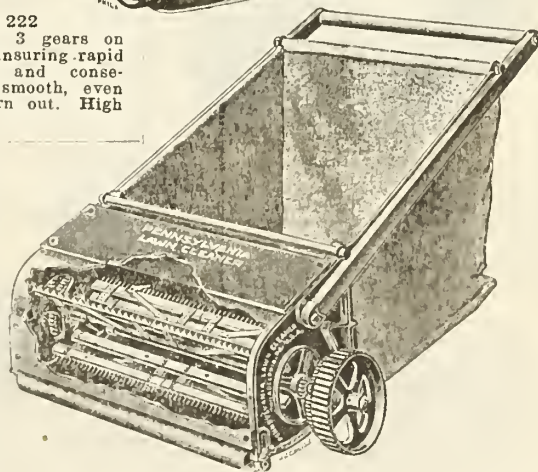
No. 222

a train of 3 gears on each side, insuring rapid revolution, and consequently a smooth, even entirely worn out. High

Pennsylvania Lawn Cleaner and Rake

This machine will remove from the lawn not only the cut grass, but all sorts of litter, leaves and trash, leaving the grass standing upright and free from foreign matter that prevents the sunlight and dew from getting to the roots. The action of the three revolving wire tooth rakes is beneficial to the turf, for it raises up the low growing crab grass and other spreading weeds. This machine is easy to operate, and with it one man will do more work than four men with hand rakes.

The suction created by the rapidly revolving rake cleans the lawn on the same principle as the vacuum sweeper operates on carpet. Price, 24-in., \$22.50.



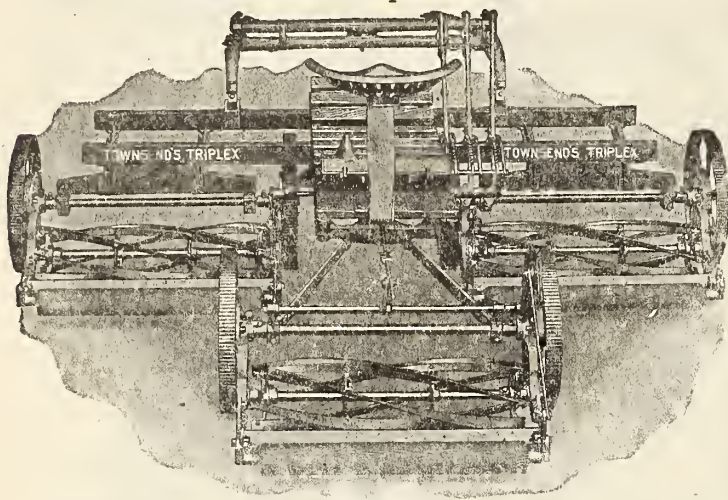
No. 220



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



The Townsend Triple Golf Mower



No. 223

Here is a mower much lighter than the ordinary horse lawn-mower, but which cuts three times as wide a swath. One man and one horse, with a Triplex, will cut more grass in a day, than three men and three horses with three ordinary lawn-mowers, thus saving the wages of two men, the cost of two horses and the cost of their care and keep. Price, \$300.00. Extra Unit, \$55.00.

Bieder Adjustable Grass Catcher

Gathers Grass without the use of a rake, and without time or labor. Made of best striped canvas on a galvanized frame. They are adjustable in height and width, to fit all sizes and makes of mowers.



No. 226

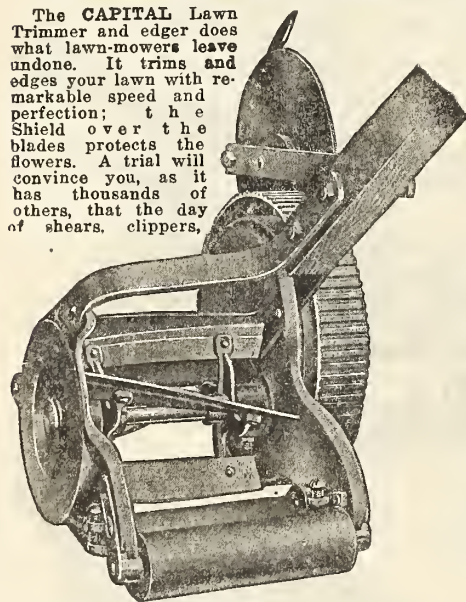
They are adjustable in height and width, to fit all sizes and makes of mowers.

No. 7. Fits all Low Wheel Mowers, 18 inches and smaller. Price, \$1.00. Weight, 2 lbs.

No. 13. Fits all High Wheel Mowers, 24 inches and smaller. Net Price, \$1.25. Weight, 2 lbs.

The Capital Lawn Trimmer

The CAPITAL Lawn Trimmer and edger does what lawn-mowers leave undone. It trims and edges your lawn with remarkable speed and perfection; the Shield over the blades protects the flowers. A trial will convince you, as it has thousands of others, that the day of shears, clippers,



No. 224

etc., is past. Four crucible steel blades, six inches in length, tempered in oil, swivel bushings, double adjustment. Price \$7.00.

Style A Philadelphia Lawn Mower with Ball Bearings

No. 225

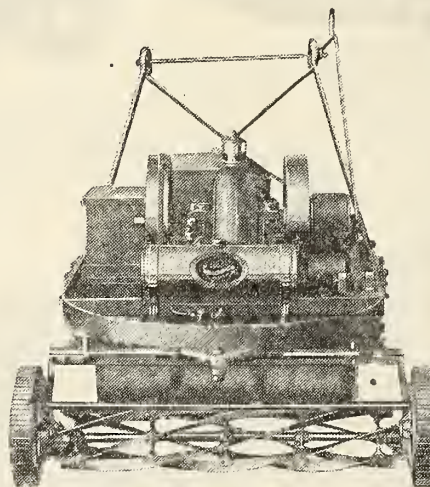
This mower is all steel construction, has a front axle and train of gears on one side only, driven from both wheels by means of a double ratchet. Either wheel will drive cylinder. This mower is a favorite on parks, cemeteries and golf links. Has self-oiling cups and Vanadium crucible steel blades. It is a first-class machine in every way, as every one knows who has ever used them.

Price, 17 inch, \$18.50, 19 inch, \$20.50.

For the Beauty of Your Lawn

You will find that the Ideal Tractor Mower is built along the same principle as that of the hand mower, thereby making it simply a mower pushed by a roller. Other methods of driving a mower have proven themselves failures. Experience has taught us that the obstructions which the machine will pick up on the lawn break a machine under the old method of driving, where the cutting reel is driven direct by sprocket and chain. This cannot occur with the Ideal Tractor Mower as the drive wheels will slip.

The Ideal Tractor Mower is as near a fool proof machine as it is possible to make it. Every part is made as simplified as it can be to accomplish the result and complicated mechanism is done away with. It does not require a skilled mechanic to care for, or run an Ideal Tractor Mower.



Ideal 30-inch Combination Roller Mower

No. 227

By the removal of the mower and substituting a front castor, which requires but a few minutes time, you have a power roller which is heavy enough to do the spring rolling. This combination of a mower and roller is a feature which should not be overlooked.

The Ideal Tractor Mower will answer every requirement for the beauty of your lawn. Being moderate in price it represents a very desirable investment on every estate where one or more gardeners are employed.

Width of cut30"
Width of roller24"
Speed per hour.....2 3/4 miles
Diameter of roll14"
Diameter of Mower wheels...11"
No. of cutting blades5
Actual weight550 lbs.

Ball bearings used throughout this machine.

Price \$360.00.

Less roller castor, deduct \$15.00.



EVERYBODY KNOWS ROSS' SEED GROWS



Asparagus Buncher

No. 228
Price \$2.25
Mailing Weight. 5 lbs.

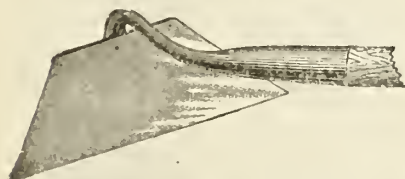
Arlington Slide Hoe



No. 229

Used by nearly all of the large market gardeners. Where there are no stones it will do excellent work and do it fast. Made in three sizes. 8 in. \$1.50, 9 in. \$1.65, 10 in. \$1.75. 8 lb. Handle not included by parcel post.

Sunnyside Hoe



No. 230

The above cut shows the Sunnyside or Strawberry Hoe, invented several years ago by one of our largest strawberry growers and since then used by several of the leading fruit growers in the state. It is especially adapted for small fruits and close cultivation. Price, each, 90 cts. Mailing weight 2 1/2 lbs.

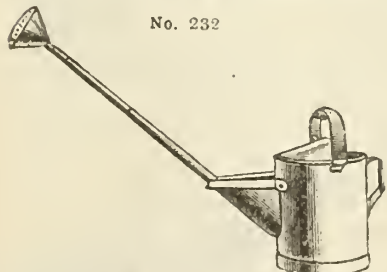
Norcross Improved Hand Garden Cultivator



No. 231

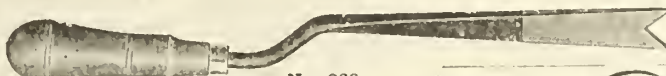
A very handy garden tool. 5 prongs, \$1.25; 8 prongs, 85 cts. Hand, 40 cts. Mailing weight 3 lbs.

Wotherspoon's Greenhouse Watering Pots



No. 232

Regular pattern, with extra long spout for greenhouse work, complete with two roses, coarse and fine. 10 qt. \$2.75. Mailing weight, 5 lbs.



No. 233

Goodale's Asparagus Knife

Best asparagus knife made. Made of best steel, strong and rigid. Price, 50 cts. Mailing weight, 1 lb.



Cedar PLANT TUBS

Nicely painted
Pat. Drop Handles
Cast Iron Feet

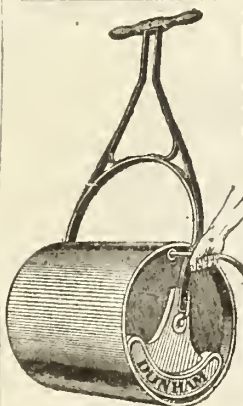
No.	Dia.	Bottom	Depth	Price Each
3	19	17	18	\$7.00
4	17	15	16	6.00
5	15	13	14	5.50
6	12	11	12	4.75
7	11 1/4	10	10	4.00
Painted Green, Plain, No Handles				
5	10		9	1.25
6	11		10	1.40
7	12		11	1.65



Scuffle Hoe and Handle

No. 235

6 in. 50 cts., 7 in. 55 cts., 8 in. 65 cts., 9 in. 75 cts. Weight, 1 lb. Handle not included by parcel post.



No. 240

No. 239
Made of steel with Bent Handle. Price \$2.00.

DUNHAM WATER WEIGHT LAWN ROLLER

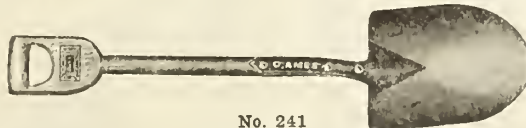
The Dunham Water Weight Lawn Roller is electric welded, making the water section one solid drum, no rivets are used. It cannot leak. The roller surface is perfectly smooth and cannot injure the lawn. The handle weights are to counter-balance the weight of the handle and keep it in an upright position off from the ground.

RETAIL PRICE OF DUNHAM WATER WEIGHT LAWN ROLLERS

	Diameter	Length	Sec- tions	Weight Empty	Filled With Water	Price
HW2	14	20	1	120 lbs.	260 lbs.	\$11.50
HW4	18	24	1	135 lbs.	360 lbs.	13.00
HW6	24	24	1	185 lbs.	560 lbs.	17.00
HW8	24	32	1	200 lbs.	710 lbs.	18.50

We can furnish these same rollers without handle weight at \$1.50 less, f. o. b. cars at factory but with the weight the handle is always where you want it and never in the mud and is well worth the difference in price.

THE FOLLOWING SHOVELS ARE ALL AMES' MAKE



No. 241

No. 2, Ames' Special, D. H., square, each \$1.65; No. 2, Ames Special, D. H. round, each \$1.65; No. 2, Our Best, D. H., square, each, \$1.50; No. 2, Our Best, D. H., round, each \$1.50; No. 3, Our Best, D. H., square, each \$1.50, doz. \$14.00; No. 3, Our Best, D. H., round, each, \$1.50, doz. \$14.00; No. 2, Sunnyside, D. H., square, each, \$1.35, doz. \$13.50; No. 2 Sunnyside, D. H., round, each, \$1.35, doz. \$13.50. Nos. 3, 4, 5 and 6, add 5 cents each. No. 2, Champion Strapped Back, D. H., square, each, \$1.25, doz. \$13.00; No. 2, Champion Strapped Back, D. H., round, each, \$1.25, doz. \$13.00.

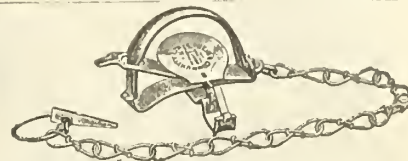
Black finish 25 cents per dozen less.



No. 242

Columbia
Revolving
Lawn
Sprinkler
Price \$1.75
Niagara
Round Lawn
Sprinkler
Price 75 cts.
5 lbs.

JUMP TRAP WITH CHAINS



No. 236

Light in weight, open up flat and used extensively by lots of trappers. The Nos. 91 and 91 1/2 have double jaws which catch the animal high on leg and prevent gnawing off leg.

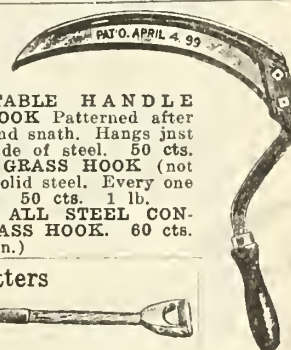
Sizes	Each	Doz.	Sizes	Each	Doz.
0	\$.22	\$2.00	3	\$.60	\$6.75
1	.25	2.50	91	.35	3.75
1 1/2	.35	3.50	91 1/2	.45	5.00
2	.45	4.75			

VICTOR TRAPS AND CHAINS No. 237

Has spring on outside and preferred by many trappers on account of price and serviceability.

Sizes	Each	Doz.	Sizes	Each	Doz.
0	\$.20	\$1.75	2	\$.35	\$3.50
1	.25	2.00	3	.45	5.00
1 1/2	.30	3.00	4	.50	5.50

Steel Grass Hooks



ADJUSTABLE HANDLE
GRASS HOOK Patterned after a scythe and snath. Hangs just right. Made of steel. 50 cts.

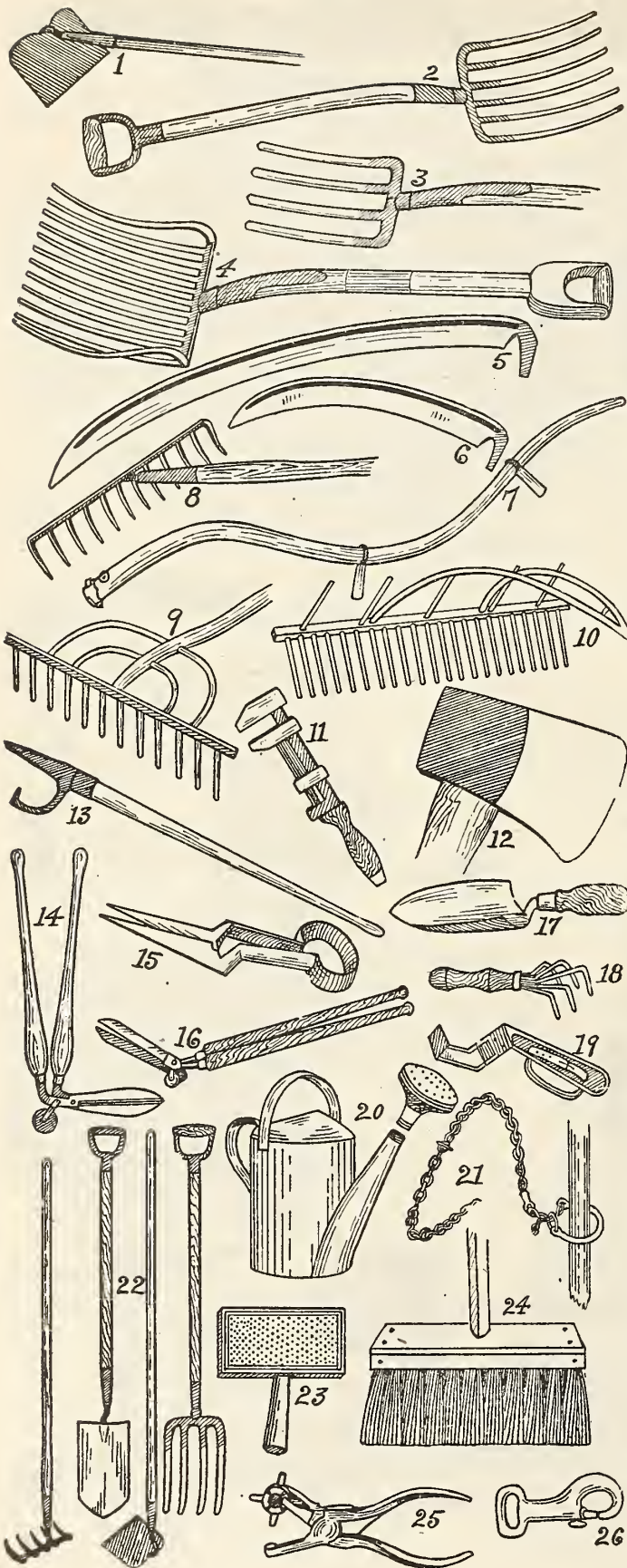
PRIDE GRASS HOOK (not shown). Solid steel. Every one warranted. 50 cts. 1 lb.

NOLEN ALL STEEL CONCAVE GRASS HOOK. 60 cts. (Not shown.)

Sod Cutters



No. 238



The following is a partial list of the large line of hand tools we carry.

In ordering give name, number and size.

No.	Name	Each	Mailing Wgt.
No. 1 Hoes.			
7½-8 in.	Field Socket...	\$.95	
7½-8 in.	Field Shank...	.85	
8 in.	Meadow Socket...	1.00	
8½ in.	Meadow Socket...	1.00	
9 in.	Meadow Socket...	1.00	
9½ in.	Meadow Socket...	1.05	
8 in.	Meadow Shank...	.85	
8½ in.	Meadow Shank...	.90	
9 in.	Meadow Shank...	.95	
Ladies'	.....	.65	
Boys'	.....	.75	
Square Top Onion	.....	.95	
9 in.	Mortar	1.00	
10 in.	Mortar	1.15	
No. 2 Manure Forks.			
4 Tine, Long Handle, Strapped	.....	\$1.30	
5 Tine, Iron D Handle, Plain	.....	1.50	
5 Tine, Wood D Handle, Plain	.....	1.65	
5 Tine, Long Handle, Strapped	.....	1.50	
5 Tine, Iron D Handle, Strapped	.....	1.60	
5 Tine, Wood D Handle, Strapped	.....	1.75	
6 Tine, Iron D Handle, Plain	.....	1.65	
6 Tine, Wood D Handle, Plain	.....	1.90	
6 Tine, Long Handle, Strapped	.....	1.75	
6 Tine, Iron D Handle, Strapped	.....	1.85	
6 Tine, Wood D Handle, Strapped	.....	2.00	
No. 3 Spading Forks.			
4 Tine, Iron D Handle, Plain	.....	1.40	
4 Tine, Wood D Handle, Plain	.....	1.65	
4 Tine, Long Handle, Strapped	.....	1.35	
5 Tine, Iron D Handle, Strapped	.....	1.90	
5 Tine, Wood D Handle, Strapped	.....	2.15	
No. 4 Coke Fork.			
10 Tines, 1½ in. between	.....	2.25	
12 Tines, 1½ in. between	.....	2.55	
14 Tines, 1½ in. between	.....	2.95	
No. 5 Scythe.			
Clipper	.....	\$1.25	3
Foster, all steel	.....	1.40	3
Damascus Steel	.....	1.40	3
No. 6 Brush Scythes.			
No. 7 Scythe Snath.			
Ash	.....	1.25	
Bush Snaths	.....	1.25	
No. 8 Steel Rake.			
12 Tooth, iron	.....	.40	
12 Tooth, steel	.....	.85	
14 Tooth, iron	.....	.45	
14 Tooth, steel	.....	.90	
16 Tooth, iron	.....	.50	
16 Tooth, steel	.....	.95	
No. 9 Rake.			
2X, 3 Bow, Bent	.....	.75	
No. 1, 3 Bow, Bent	.....	.65	
Lawn Rake, 24 Teeth, XX	.....	.80	
No. 10 Drag Rake	.....	1.00	
No. 11 Wrench.			
8 in.	.....	.40	
10 in.	.....	.50	
No. 12 Foster Axe.			
Hickory King (Warranted), Axe	.....	2.00	
Black Jacket Axe	.....	2.00	
No. 13 Cant Hooks	.....	2.00	
No. 14 Lawn Shears	.....	4.50	
No. 15 Grass Shears, .35 and .75			
No. 16 Lawn Shears	.....	4.50	
No. 17 Garden Trowel.			
6 in. Steel	.....	.30	
No. 18 Secor Weeder	.....	.12	
No. 19 Noyes Weeder	.....	.25	
No. 20 Watering Pot.			
4 quart	.....	.75	
6 quart	.....	1.00	
8 quart	.....	1.10	
10 quart	.....	1.25	
12 quart	.....	1.45	
16 quart	.....	1.75	
No. 21 Cow Tie.			
3½ feet	.....	.40	
4 feet	.....	.50	
4½ feet	.....	.60	
No. 22 Garden Sets.			
1. 3 pieces	.....	.15	
2. 3 pieces	.....	.20	
3. 3 pieces	.....	.25	
4. 4 pieces	.....	.50	
4 Piece set (not shown) a fine warranted set	.....	2.25	
No. 23 Cattle Card.			
No. 1, large leather, bound	.....	.25	
No. 4, small leather	.....	.20	
No. 24 Rattan Brush Broom.			
5 row, 14 inches	.....	1.25	
5 row, 16 inches	.....	1.40	
6 row, 16 inches	.....	1.50	
No. 25 Revolving Harness Punch.			
4 Tube	.....	.70	
5 Tube	.....	.90	
No. 26 Harness Snaps.			
	.....	.05 to .15	

For parcel post rates see page 2



EVERYBODY KNOWS ROSS' SEED GROWS



CURVED TOOTH STEEL RAKE No. 243.
12 teeth, 90 cts. each, 14 teeth, \$1.00, 16 teeth, \$1.10 each.



QUEEN REVERSIBLE LAWN RAKE No. 244. 75 cts. each. 3 lb. No handle by parcel post.



TURF EDGER No. 245. 75 cts. each. 3 lb.



STEEL BLADE TREE SCRAPER No. 246. 60 cts. each. 2 lb.

CEMETERY VASE



No. 248

Green and gold,
Small, 25 cts. each;
medium, 30 cts. each;
large, 35 cts. each.
4 lb.

WIRE RUBBISH BURNERS No. 247

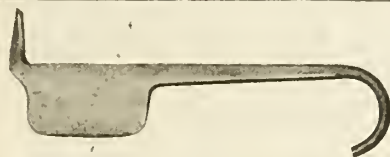


No. 1, 20x30... \$3.00
No. 2, 17x25... 2.00
No. 3, 14x21... 1.50



PEERLESS FRUIT-PICKERS No. 249
Price, 25 cts. 1 lb.

COTTON GLOVES No. 250. For garden work. 25 cts. per pair, postpaid.



GRAFTING CHISEL No. 251. All Steel, 85 cts.



SECOR WEEDERS No. 253. 12 cts. each, \$1.10 doz.



SHOVEL HANDLES No. 254. 50 cts. each.



COOPER HOSE MENDER No. 255
(All brass.) $\frac{1}{2}$ in. and $\frac{3}{4}$ in. 8 cts. each; 75 cts. doz. $\frac{1}{2}$ in. and $\frac{3}{4}$ in.



BRASS HOSE WIRE No. 256. $1\frac{3}{4}$ inch. 10 cts. doz.



PERFECT ALL BRASS CLINCHING HOSE COUPLING No. 257. 35 cts. set. Menders, 10 cts. each. Put it on hose and hammer it in place.



SURE GRIP HOSE BAND No. 258. $\frac{1}{2}$ in. and $\frac{3}{4}$ in. 3 cts. each; 2 for 5 cts.

PRUNING SAWS

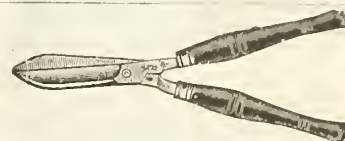


No. 259

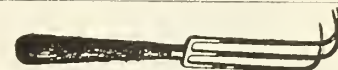
Price, curved edges, 16-in. 70 cts.; 18-in. 85 cts. Straight, 16-in. 60 cts.; 18-in. 70 cts. One edge, 18-in. 70 cts. Wt. 1 lb.



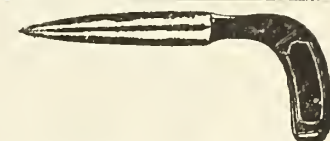
HAZELTINE HAND WEEDER No. 260. 25 cts. each.



HEAVY POLISHED HEDGE SHEARS No. 261. Price, \$2.25, with notch, for heavy work, \$2.50. 4 lb.



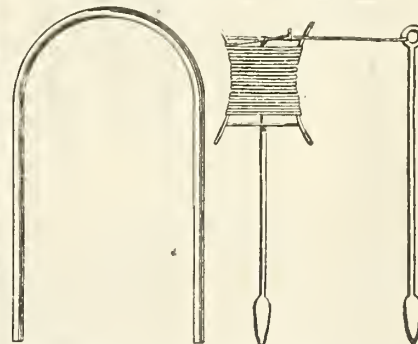
WEEDING HOOK No. 262. 3-tine. Price, 40 cts.



IRON DIBBER No. 263. Price 50 cts. 2 lb.



GARDEN TROWEL No. 264. Price, 10 cts.



WIRE WICKET No. 265. Painted Green. Heavy. 85 cts. per doz.; light, 60 cts. per doz.

GARDEN LINE REELS No. 266. Two sizes, holds 200 feet of line, \$1.00. Wt. 8 lb., holds 300 feet of line, \$1.15. Garden line, 100 feet, \$1.00.



STEEL GARDEN TROWEL, No. 252. Best one ever made. Price, 65 cts.

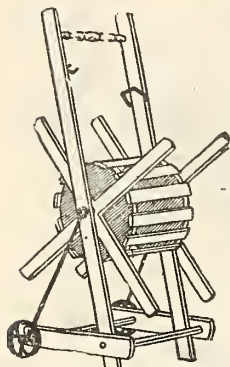
CLEVELAND LAWN WEEDER No. 267.

The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull suffices to dislodge it without disturbing the surrounding soil. Price 75 cts. 2 lbs.





ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



Wire Tree Guard
No. 269
Made of extra heavy wire.
Price
\$1.50 each.



No. 268

The Eclipse Hose Reel

A handy and well-made Hose Reel, mounted on wheels, can be easily moved from one place to another. Hose should always be wound on a reel as it prevents it from rotting. Price, 90 cts.

Plant Supports

No. 270

for Tomatoes, Roses, Dahlias, Hydrangeas and many other bushes and vines. The Adjusto is a practical, very simple, and low-priced support, which makes for more healthy, thrifty stock. It can be adjusted to any height. Price, \$2.00 doz.

Tomato Support

34 in. high, 20 in. in diameter at the top. Price, \$3.00 per doz.



No. 271

Plant Sticks

	Each	100
1 1/2 ft.	\$.02	\$1.50
2 ft.	\$.03	2.25
2 1/2 ft.	\$.05	3.50
3 ft.	\$.06	5.50
3 1/2 ft.	\$.07	6.50
4 ft.	\$.08	7.50
5 ft.	\$.09	10.00
6 ft.	\$.12	12.00

Veranda Trellis

High	Wide	Each
5 ft.	18 in.	\$1.50
6 ft.	18 in.	1.75
7 ft.	18 in.	1.85
8 ft.	18 in.	2.00
9 ft.	20 in.	2.50
10 ft.	20 in.	2.75
11 ft.	20 in.	3.00
12 ft.	20 in.	3.50

For pot or garden use, square, painted green.

Nursery's Stake

No. 274	16 x 2 in. Extra quality. No paint.	4 cts. each; \$3.50 per 100.
---------	-------------------------------------	------------------------------

No. 272

No. 273

Burlap Hotbed Mats



No. 275

Made of burlap filled with hair felt, 76x76. Preferred by many market gardeners to the straw mats. Each, \$2.50; doz. \$25.00. Straw hotbed mats (not shown) 6 x 6, each \$2.50.

Hot Bed Sash

No. 276

3 x 6 x 1 1/4 in., with sides projecting, glazed with 6 x 8 in. double thick glass painted two coats, \$3.75 each; in lots of 5, \$3.50 each, in lots of 25 or over, \$3.25 each.

Can furnish unglazed sash in quantities at short notice. Ask us for price; we only carry glazed in stock.



Tree Labels

No. 277
Copper Wire
3 1/2 in. per 1000 \$2.50

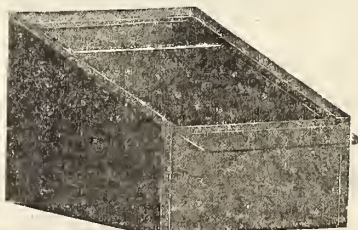
Pot Labels

No. 278
Painted
4 in.\$20 \$1.50
6 in.25 2.25

Garden Labels

No. 279
Painted
8 in. ...\$75 \$6.50
12 in. ...1.25 10.00

One Light Plant Frame



No. 280

This frame made of 1 inch Cypress, 8 inches high at the front and 12 inches at the back. Made with groove to use one 10 x 12 inch light of glass. Very handy for starting vegetables outside. Price, each \$2.00, doz. \$18.00.

Garden Hose



No. 281

Our 7-ply Nobust brand of Garden hose is made especially for us by the largest hose manufacturer. It has a high grade seamless tube, which is the life of the hose. A chain is no stronger than its weakest link—so a piece of Garden hose will last no longer than its rubber lining. Over this rubber tube, which has been given a coating of pure gum cement, there is wound by a special machine seven layers of closely woven fabric which have been thoroughly impregnated with high grade rubber; then over this there is a tough, strong rubber cover which protects the fabric and hose from external wear. The seven plies and strong friction between them enable the hose to stand the highest water pressure; and every length is fully guaranteed and bears our name and brand. Our price is so low and attractive for this high grade hose to enable us to sell the maximum amount as we are desirous of making it our best seller and a hose that will make many friends for us.

We handle other standard brands of hose. The prices below are for 25 or 50 foot lengths and no charge for coupling:
Nobust. 1/2 in. 15 cts. ft. 3/4 in. 17 cts. ft.
Bull Dog. 7 ply, 3/4 in. 20 cts. ft.
Tiger. 6 ply, 1/2 in. 14 cts. ft. 3/4 in. 16 cts. ft.
Leader. 5 ply. 1/2 in. 12 cts. ft., 3/4 in. 14 cts. ft.
Cotton. 3/4 in. 20 cts. ft.
Goodluck. 3/4 in. 16 cts. ft.
25 and 50 foot lengths only.

Hose Mailing Weights

25 ft. Bull Dog 1/2 in. 8 lbs. 3/4 in. 10 lbs.
25 ft. Tiger 1/2 in. 6 lbs. 3/4 in. 9 lbs.
25 ft. Leader 1/2 in. 6 lbs. 3/4 in. 9 lbs.
25 ft. Cotton 1/2 in. 6 lbs. 3/4 in. 8 lbs.

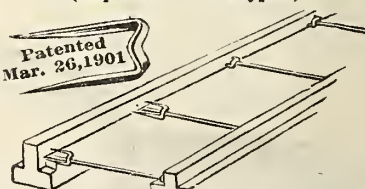
Spray Hose

No. 282

We have succeeded in getting a spray hose which we can unconditionally warrant. This is a special brand of hose made particularly for orchard spraying with any kind of insecticide and will withstand the most severe tests. The inner tube of this hose is constructed of a rubber which will resist any acid used in spraying, thereby giving long life to the hose. In placing this hose on the market and in offering it to the most critical trade we are sure we have something that will please everyone using a spray hose. We have this hose on reels and can supply any length wanted. In ordering for power use, kindly so state so that it can be made up with long tail couplings. Price per foot, 1/2 inch, 15 cents. Couplings extra.

"Peerless" Glazing Points (Improved Van Reyper.)

Patented
Mar. 26, 1901



No. 283

PEERLESS GLAZING POINTS. Improved Van Reyper. Per box 1000 points, 60 cts.



EVERYBODY KNOWS ROSS' SEED GROWS



The Ross Paper Baler.

No. 284



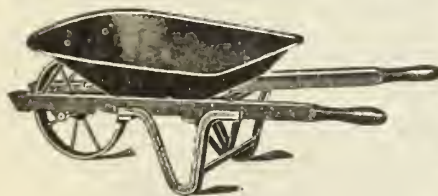
Don't throw away your waste paper, when it is worth 50 cts. per 100 lbs. Loose papers will not be taken at any price as it cannot be handled unless it is baled.

The Ross Baler is made in four sizes, making bales from 70 to 160 lbs. Very easy to operate, taking little room.

One of these balers will turn into profit what waste paper you have, which heretofore was a nuisance.

No. 1, making bale 18x24, 120 to 160 lbs. \$20.00
No. 2, making bale 16x22, 100 to 125 lbs. 18.00
No. 3, making bale 15x21, 90 to 110 lbs. 15.00
No. 4, making bale 15x21, 75 to 90 lbs. 12.50

Wolverine Angle Leg Barrow.



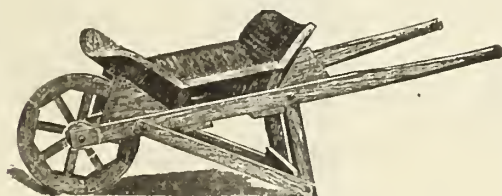
No. 285

The very best all-round contractor's barrow made. Tray pressed from one solid piece, 29 x 36 at top. Frame of hard wood and thoroughly braced and bolted. 16 in. steel wheel; tire 1 3/4 x 5-16; 5/8 in. axle. Heavy rod rolled in edge.

Weight, 825 lbs. per doz. Each, \$8.50, per doz. \$90.00.

TUBULAR STEEL BARROW (Not Shown). Tubular steel barrow, with pressed steel bowl, and steel frame; double braced and made for heavy work. 3 cu. ft. Price, \$9.00 each, \$100.00 per doz.

Dump Barrow.



No. 286

Without doubt the strongest and most durable dump barrow on the market. Either wood or steel wheel. Price, Steel wheel, \$3.50 each. \$40.00 per doz.

Pyrene Fire Extinguisher

No. 287

The Fire Extinguisher That Puts Out Any Kind of Fire
Every automobile should have one and every set of farm buildings should have two or three, one in the house and one in the barn. They will not freeze and will pay for themselves with what they can save from insurance. Price, Nickel, \$10.00; Brass, \$9.00.



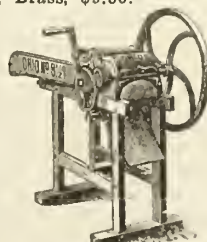
Ohio

Hand-Power Cutters

Nos. 8 1/2 and 10 1/2

Best Hand Cutter Made

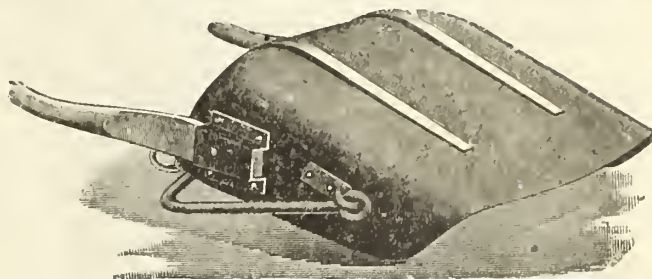
Discount for Cash, 5%



No. 288

No.	Length Knives	Knives	Length of cut	Price
8 1/2	8 1/2	2	1/4, 3/8, 1/2 in.	\$25.00
10 1/2	10 1/2	2	1/4, 3/8, 1/2 in.	\$30.00

Steel Scraper With Runners.

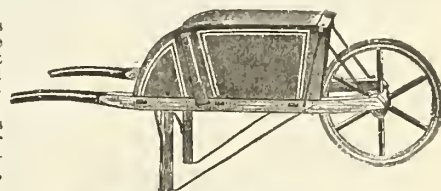


No. 289

No. 1 carries 7 feet of earth \$13.50
No. 2 carries 5 feet of earth 13.00
No. 3, carries 3 feet of earth 12.75

No. 4 Ross Special Barrow.

This barrow is made exactly like the Nuway except that it is equipped with removable side-boards.

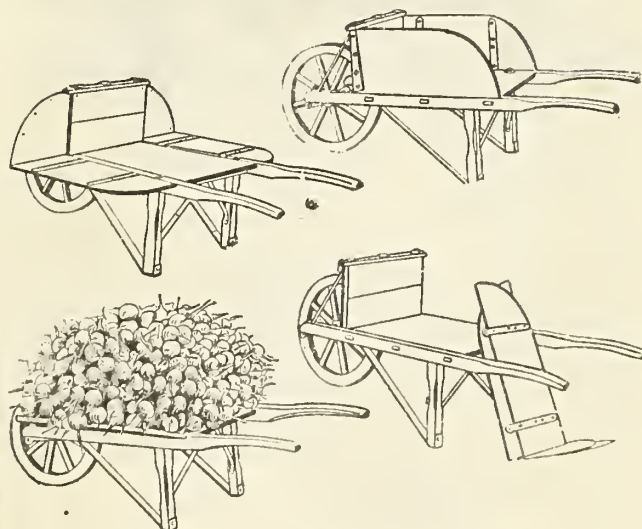


No. 290

The wheelbarrow is made specially for us, is well constructed throughout, of hard wood and strongly ironed. Finished with two coats of paint and one coat of varnish. This is the best low-priced garden barrow on the market. Price, \$7.00.

No. 4 Regular Commercial Grade, painted red. Price, each \$6.00.

The Nuway Garden and Lawn Wheel Barrow.



No. 291

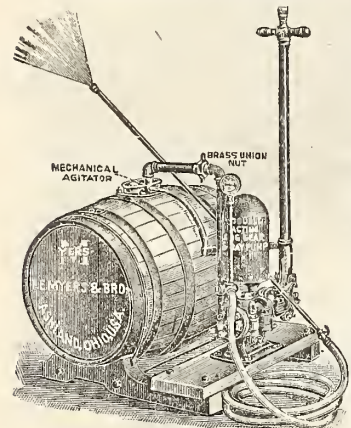
While improvements have been made in all kinds of farm and lawn appliances during the past few years there has been no improvement in this one indispensable article for the past 25 years, but no garden outfit is complete without one. It is used for moving all kinds of farm and garden truck and a hundred and one other purposes.

The above illustrations show the different adjustments of this barrow. It can readily be seen that with adjustable sides the capacity of the barrow can be doubled and tripled. This barrow with the sides up holds just one-third the amount that it does with the sides tipped, showing a load of bunch beets. It can be used as a garden or dump barrow for moving any kind of material. It is especially adapted for farm and garden work, made of first-class material, hard wood frame, iron hub, steel tire, heavy iron braces, all the wood work painted three coats, nicely finished in red, and varnished. Price \$7.50.



Hand and Power Sprayers for all Purposes

The Worcester Double Acting Cog Gear Spray Pump



No. 292

shut-off, mechanical agitator with fembro nozzle, or any nozzle selected. The price of the complete outfit, \$50.00.

We can furnish hose for this pump in 25 and 50-foot lengths.

Single Acting Brass Spray Pump

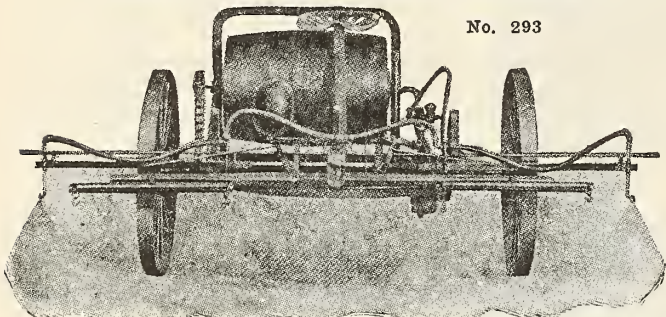


No. 295

The construction of this pump is the very best possible and we believe it is unequaled for the money. Bronze ball valve, with brass seat, the plunger is brass, with hemp packing, and it will handle hot, cold or any caustic mixture. Cylinder and discharge pipes are brass. The air-chamber is 30 inches long. Uniform and constant stream; pump sets inside the barrel, entirely submerged. Complete, including barrel, extension pipe, nozzle, mechanical agitator, and 15 feet of hose all ready for work. There are lots of higher-priced pumps on the market than this one, but none better or more practical for general use. We have sold hundreds of them and they always give satisfaction, and we will gladly refund the money paid for one of these pumps if it should not prove satisfactory in every way. Price, complete, \$21.50.

SIMPLEX FOUR-POTATO SPRAYER

No. 293

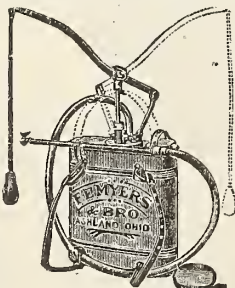


This sprayer has been tested thoroughly in different sections of New England and it has been used in the large potato-growing districts in the West for a number of years and in that territory has received the most severe test that is possible to put a machine of this kind to. This Sprayer has a 3 x 7 inch pump, all working parts brass, cam driven, with four independent bronze ball checks, with capacity to supply 12 nozzles at 150 lb. pressure. The barrel or tank holds 2 gallons and revolves on its axis, thereby keeping the mixture thoroughly stirred and thus preventing clogging of the nozzles, and doing away with all unnecessary parts which are required to operate an inside agitator.

Frame is built of angle steel. Wheels are of steel with concave tire. Axle 1 7-16 inch cold rolled shafting long enough to allow wheels to straddle two rows. Wheels are adjustable on shaft. Spray Bar made so that nozzles may be set to spray over rows anywhere from 2 ft. 8 in. to 4 ft. apart and may be shifted to reach uneven rows while spraying. Sprayers all have large air Compression Chamber with Automatic Pressure Regulator and Shut-Off. All working parts in front of driver. Price, with Pole or Shafts, 4-Row, \$100.00.

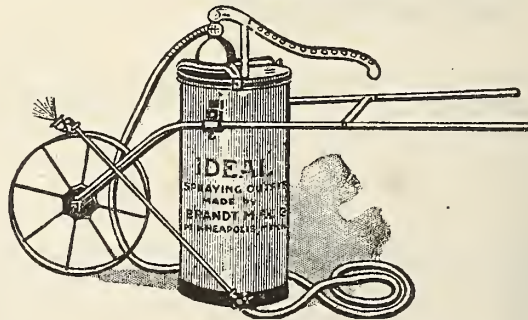
MYERS KNAPSACK SPRAY PUMP.

The tank of this pump, made of copper, holds 5 gallons and is fitted with lid and strainer, which can be removed. The pump is made of brass with large air chamber, brass ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle so the operator can use it the same as a tank with bucket pump if desired and the handle lever can be shifted from right to left shoulder-at will. Has brass stop cock at end of hose. A general purpose pump for all low growing shrubs and vines. Price, Copper, \$20; Galvanized, \$12.75. Wt. 16 lbs.



No. 294

"Ideal" Spray Outfit



No. 296

This outfit is light, compact and easy to operate. The tank holds fifteen gallons, is mounted so that the liquid will not slop or spill, and in a way that makes it easy to handle. The pump spreads across the top of the tank and is held firmly in place by a thumb nut. It has the largest air chamber of any spray pump of corresponding size. This enables the operator to keep a uniform pressure at the nozzle.

The pump barrel is 1 3/4 inches in diameter, 7 inches in length. The plunger is made of brass and is self-oiling. The packing is cotton wick, which will resist the action of the chemicals used for spraying and can be tightened without removing from the pump. The valves are bronze balls 5/8 of an inch in diameter, which allows free passage of the liquids and prevents clogging. Both valves are removable. The pump handle is extra long and a pressure of one hundred and fifty pounds can be easily maintained.

A mechanical agitator keeps the liquids well stirred. A fine strainer at the opening in the suction pipe prevents anything getting into the working parts of the pump. The pump has the following equipment:

10 feet, 3/4-inch Pressure Hose; 1 "Ideal" Nozzle;
8 feet Pipe extension, in 2 pieces; 1 Brass Shut-off Cock.
Shipping Weight, crated, 60 pounds. Price, \$27.50.



EVERYBODY KNOWS ROSS' SEED GROWS



No. 297

MYERS' PNEUMATIC COMPRESSED AIR SPRAYER

This Sprayer is made of heavy galvanized iron with 1 3/4 in. brass tube cylinder. The manufacturers claim that a small cylinder operates easier than a large one.

The nut at the top is operated by lugs on the lower part of the handle. By means of these lugs and handle the nut can be screwed much tighter to the top of the tank than in ordinary way, and at the same time lock the plunger position which also permits of the sprayer being carried by the handle when in use.

The nozzle is one of the special features of this sprayer, by means of the small lever the spray can be adjusted from a broad, fine spray, covering the ordinary distance, into a complete long distance spray throwing water 25 feet, by means of which the tops of any ordinary fruit tree can be reached.

One of these sprayers will answer not only for the low growing shrubs and vines and also for anyone who has a few tall trees to spray.

Price, \$7.50.

THE AUTO-SPRAY PUMP

No. 302

The "Auto-Spray" No. 1 B works automatically for six to fifteen minutes, according to the nozzle opening. It may be charged in fifteen seconds by a few strokes of the plunger, and two pumpings will usually discharge the entire contents. Simply fill two-thirds full of solution and pump up air pressure. Diameter, 7 inches; height, 2 feet; capacity, 4 gallons; weight, 16 lbs. with all attachments. Price with stop-cock, Brass \$9.25; Galvanized, \$7.25.

AUTO HOSE COCK NO. 1. Price, \$1.25.

TWO ROW ATTACHMENT. Price, \$1.50.

TWO FOOT BRASS EXTENSION. Price, 50 cts.

BRASS ELBOW. Price, 50 cts.



PATENTED.

Myers'
Whitewash
and Painting
Machine

Rochester Self-Operating Sprayers

No. 298

The air enters the sprayer through the valve at bottom of pump thoroughly agitating and mixing the contents of Sprayer. The compressed air, being powerful, forces the liquid out through the outlet pipe, making either a fine spray or a solid continuous stream as desired. This size machine holds from 3 to 4 gallons. Price, Galvanized Iron Style G, \$6.85. Brass, \$8.85. Weight, 9 lbs.



No. 299

For washing windows and sprinkling lawns where there is no water pressure. Has foot rest, best hose and spray nozzle. Price, \$5.00. Weight 6 lbs.

and General Purpose Spray Pump.

No. 303

The most durable spray pump for whitewashing and applying cold water paint there is made. All parts are of the best material and with proper care will last for a lifetime. Price, \$13.85.

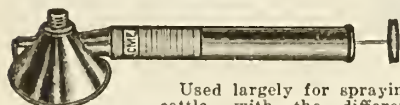
DAISY TIN FORCE PUMP (not shown.) No. 304

This is a good, low-priced force pump; used for sprinkling vines and shrubs; also used for whitewashing and other similar uses. Made of tin and has two nozzles. Price, \$1.25.



THE ACME ATOMIZER

No. 300

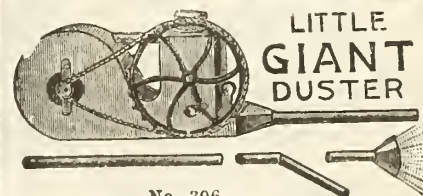
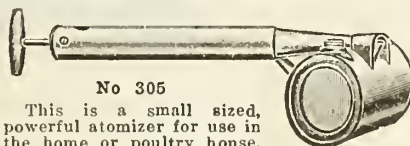


Used largely for spraying cattle, with the different mixtures on the market, to keep off the flies; spraying Paris green and other insecticides on potato vines, shrubs, small trees, house plants, live stock, and poultry. Price, tin, 60 cts., with brass cup, \$1.00.

LITTLE MIDGET SPRAYER.

No. 305

This is a small sized, powerful atomizer for use in the home or poultry house. Very convenient for applying dust layers or disinfectants. 40 cts. each.



LITTLE
GIANT
DUSTER

No. 306

Distributes all kinds of powder. Weight 12 lbs. Price, \$12.00.

HIGLEY'S PRUNERS

No. 301



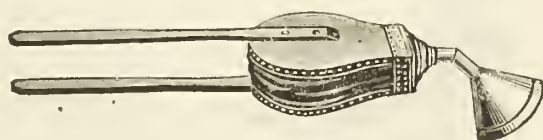
Indorsed by the Moth Commission of the State of Massachusetts, also by tree gardeners generally. No wire or metal from the blade to electrocute the user. We have them in all sizes from 10 ft. up,

both of the plain and self-holding type.

Price, plain, 10 ft. \$1.00, 12 ft. \$1.10, 14 ft. \$1.20, 16 ft. \$1.30, 18 ft. \$1.40, 20 ft. \$1.50. Self-Holding, 10 ft. \$1.25, 12 ft. \$1.35, 14 ft. \$1.50, 16 ft. \$1.65, 18 ft. \$1.75, 20 ft. \$1.85.

ACME POWDER GUN

No. 307



A simple, practical implement for the extermination of potato-bugs and all kinds of insects, flies, etc.; the pests of house and garden. Net price, single, \$1.50. Weight 4 lbs.

Special Nozzles for High Pressure Hand and Power Sprayers

THE BEST OUTFIT EVER MADE IS OF VEEY LITTLE USE UNLESS YOU HAVE THE PROPER NOZZLE, ONE THAT WILL SPRAY AND NOT ONE THAT WILL SIMPLY SPRINKLE.



No. 308

Furber Wood Pump

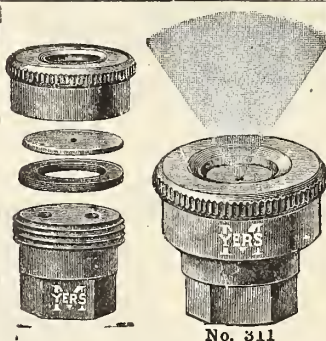
6 x 6 for house use. 7 x 7 for stock. 6 x 6 in. Stock 3 1/2 bore for general use.

	Porcelain-lined	Unlined
7-ft. long	7.25	6.30
8-ft. long	8.60	8.00
10-ft. long	11.50	10.00
12-ft. long	13.50	11.25
14-ft. long	14.50	13.00
16-ft. long	16.00	13.75

Use 4x4 inch pipe for above pumps. Price, 33 cts. per foot. Couplings and bands for the above 90 cts. each.

7x7 in. stock 4 in. bore—7 ft. long, porcelain-lined, \$12.00; unlined, \$10.00.

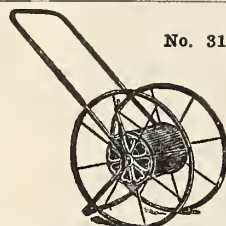
Use 4 1/2 x 4 1/2 inch pipe, 29 cts. per foot. Couplings and bands for the above, 90 cts. each.



No. 311

Rubber Bucket Chain Pump

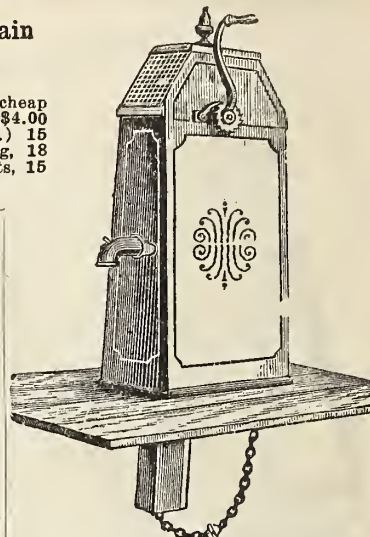
They are the best cheap pumps. Price, Curbs, \$4.00 each. Chain (3 ft. to lb.) 15 cts. per lb. Wood Tubing, 18 cts. per ft. Rubber Buckets, 15 cts. each.



No. 313

Tubular Metal Hose Reel

The most durable reel made. Holds 100 feet of hose. Price, \$3.50.



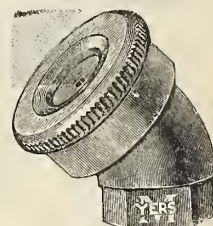
No. 314

Fembro Nozzle

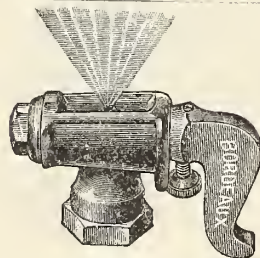
Showing parts of the Fembro Nozzle and how it is made.

FEMBRO Nozzle No. 311 is the same size and capacity as the Power Nozzle but without the self-cleaning device. This Nozzle is fitted with a removable steel disc in the cap. Price, 90 cts. Weight 1/4 lb.

FEMBRO 45 degree nozzle. This nozzle is the same as the hand spray nozzle only made on an angle which enables the operator to get inside of the tree and in under the foliage. Price, \$1.00. Weight 1/4 lb.



No. 311A



No. 309

Bordeaux Special

This nozzle will throw a fine fan-shaped spray and will readily free itself should it become clogged, by turning cock-handle. It will throw a solid stream or it may be shut off altogether if desired. Price \$1.45. Wt. 1 lb.



Boston Spray Nozzle

No. 312

Will throw a spray, a large or a small solid stream.

Price, 85 cts.



No. 315
Kirke Feeder

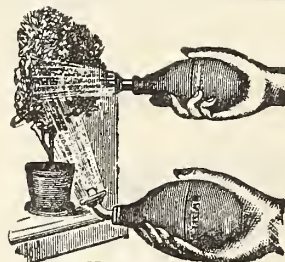
Kirke Feeder

(A DISTRIBUTING CONTAINER)

The "Kirke System" of fertilizing, or destroying insects, requires the attachment of a simple device to your garden hose.

This consists of the KIRKE FEEDER, a cylindrical cartridge container, which is easily connected to any standard size water faucet, and in which is placed a Kirke Fertilizer Cartridge or a Kirke Insecticide or Fungicide Cartridge.

KIRKE FERTILIZER CARTRIDGE as used in the Kirke System is transformed into a liquid fertilizer of the proper proportions for highest efficiency, without the slow and laborious method of mixing the chemicals with water.



No. 310

Rubber Atomizer

Useful for sprinkling house plants and also for spraying hellebore and bug death. Either style of neck. Small size, 50 cts.; large size, \$1.00.

PRICE LIST FOR 1919

	Each	Half Dozen	Dozen	MAIL WEIGHT	
				Half Dozen	Dozen
Kirke Feeder (Cartridge Container) Mail Wt. 1 1/4 lbs..	\$3.00				
Kirke Fertilizer Cartridges	0.35	\$2.00	\$3.60	3 1/2 lbs.	7 lbs.
Kirke "Tobacco" Nicotine Insecticide Cartridges....	0.38	2.15	4.00	3 lbs.	6 lbs.
Kirke Arsenate of Lead Cartridges.....	0.55	3.00	5.80	3 1/2 lbs.	7 1/2 lbs.
Kirke Bordeaux Cartridges (Fungicide).....	0.35	2.00	3.60	2 1/2 lbs.	5 lbs.
Kirke Angle Worm Destroyer Cartridges.....	1.50	8.00	15.00	3 1/2 lbs.	7 lbs.
Kirke Fly Maggots Destroyer Cartridges (Disinfectant-Germicide)	0.38	2.15	4.00	2 1/2 lbs.	5 lbs.
Kirke Sulphur Compound Cartridges.....	0.35	2.00	3.60	3 1/2 lbs.	6 1/2 lbs.
Kirke Salt Cartridges.....	0.15	0.85	1.50	3 lbs.	6 lbs.
Kirke Sprinkling Can Plant Food	Per box... 12 Tablets				
	Per carton. 72 Tablets				
	Per carton. 144 Tablets	0.38			
		2.15	4.00	4 lbs.	8 lbs.
Kirke Fertilizer (Powder) 2 lb. Box \$0.60 each.					
Kirke Fertilizer (Powder) 8 oz. Box 0.20 each.					

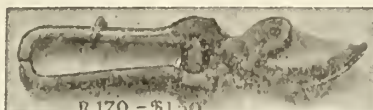
Prices subject to market price of chemicals



EVERYBODY KNOWS ROSS' SEED GROWS PRUNING SHEARS THAT PRUNE



99-\$1.25



R170-\$1.50



R70-\$1.25



60-\$.65



R85-\$1.25



R165-\$1.25



9215 4 inches long. Price, 75 cts.
Pruning Knife. Cocoa Handle.



R50 \$.75



50-\$.50



65-\$.85



6425 4 1/4 inches long. Price, \$1.00
Bone. 1 Blade.

BLACK LEAF 40

(Nikoteen Sulphate, Nikoteen 40 per cent.)

BLACK LEAF 40 is the best known remedy for Potato Lice and other similar insects. Is perfectly soluble in cold water. Can be used in combination with lime, sulphur, arsenate of lead, Bordeaux mixture. Is used as safe and effective for plant lice, thrips, leaf hoppers, etc. Highly recommended by State and Government Experts. Use about 1 to 1000, or 1 oz. will make six gallons of solution.

1 oz.	\$.30	2 lbs.	\$ 2.50
1/2 lb. ....	.90	10 lbs.	10.75



"ELECTRIC" WORM ERADICATOR

Clears roots of trees, plants, flowers, vegetables, etc., of worms, grubs and insects of every kind.

This preparation is designed for use on the roots of plants only, not the foliage. Used as directed by us, it is perfectly harmless to the most delicate roots.

From one to two ounces to each gallon of water brings worms, grubs, etc., to the surface of the ground within a few seconds, where they die.

Much damage is often done to plants and the true reason never known, for the destructive work is being done at the roots, where it is not perceptible. An application of "Electric" Worm Eradicant will greatly improve such plant, it being a fertilizer as well as a worm-killer.

4 oz.	\$.25	1 gallon	\$ 4.00
8 oz. ....	.50	5 gallon	17.50
24 oz.	1.00	10 gallon	34.00

"Nico-Fume" Liquid

(Nicotine Solution)

Has the Advantage of being Suitable BOTH for Spraying and for Fumigating Purposes.

For fumigating, the usual methods of vaporizing the Liquid are by means of lamps or hot irons, or by painting or pouring the Liquid on the heating pipes—the Liquid being easily poured on the pipes by means of an oil-can with a long spout, such as used on locomotives. By soldering a wire hook on the end of the spout the spout will not slip off the steam pipes, thus preventing waste of liquid.

"Nico-Fume" Liquid is packed in screw-top cans, and is sold in the following sizes:

Can containing 8 pounds, price	\$10.50
Can containing 4 pounds, price	5.50
Can containing 1 pound, price	1.50
Can containing 1/4 pound, price .....	.50

"HERBICIDE"—THE WEED EXTERMINATOR

Kills grass and weeds of every kind on roadways, gutters, tennis courts, etc., by one application.

Keeping roads and gutters free from weeds is an endless task when ordinary means are employed, for it is practically impossible to get the roots out, so it is only a matter of a few weeks before new tops are flourishing and it is necessary to go over the ground again.

One application of "Herbicide" when diluted with forty times its bulk of water kills both tops and roots of grass and weeds of every kind, and also prevents the growth of further crops by its sterile effect on the ground.

Its use will save much labor and expense in the long run.

1 quart cans.	\$.60	10 gallon cans	\$12.50
1 gallon cans.	1.75	25 gallon cans	27.50
2 gallon cans.	3.25	50 gallon barrel	47.50
5 gallon cans.	7.00		

Full directions accompany each package.

TREE TANGLEFOOT

A perfect safeguard for trees against gipsy, brown-tail and tussock moth, canker worm, ants, and all creeping things. It will remain sticky about three months, fully exposed to the weather. 1-lb. cans 50 cts. 3-lb. can \$1.45, 10-lb. can \$4.50, 20-lb. can \$8.75, 25-lb. pail \$10.50

COAL TAR. In quart tin boxes. For tarring corn to prevent crows from pulling it. Pt. 15 cts., qt. 25 cts. Shipping weight, 2 lbs. and 4 lbs.

PINE TAR. Used in the stable for cuts and bruises. Pint cans, 20 cts

TOBACCO STEMS. Indispensable for fumigating greenhouses and conservatories; for destroying aphids; should be dampened before using, and use a small handful on some dry shaving, and light it 100 lbs. \$3.00.

TOBACCO DUST. Kills Green and black-fly, etc., if dusted on when the plants are moist. Also good to mix in the soil to destroy ground insects. 5 lbs. 40 cts., 50 lbs. \$2.75, 100 lbs. \$5.50.

FUMIGATING TOBACCO Pure tobacco ground very fine. Prepared especially for fumigating. 100 lbs. \$4.00.

GRAFTING WAX. Price, 1/4 lb. 20 cts., 1/2 lb. 30 cts., 1 lb. 45 cts

STICKY TREE CORD. For banding trees, etc., to prevent ascent of caterpillars, gypsy and brown-tail moths and other injurious insects.

"READEANA" ROSE BUG EXTERMINATOR

A most effective insect killer that is absolutely harmless to even the most delicate flowers or foliage.

As a killer of insects of every kind, from the hardy Rose Bug to the destructive Caterpillar, there is nothing on the market to equal it.

It is very economical to use as it is sent out highly concentrated, and may be diluted with from twenty to sixty parts of water.

It is not a chemical but is made up of vegetable matter, making it harmless to flowers or foliage. It will put new life into flowers and plants, as it has a brightening effect on the same.

Put up in the following size packages:

4 oz.	\$.25	1/2 Gallon	\$ 2.25
8 oz. ....	.50	1 Gallon	4.00
1 quart	1.35	5 Gallons	17.50

Full directions accompany each package.
10 gallons \$34.00



INSECTICIDES FOR ALL PURPOSES

HAWE'S ANT-DESTROYER. Guaranteed to drive ants from any lawn. Put up in powder form and used by scattering on the ant-hills. The ants never come back. 15 cts.

DRY ARSENATE OF LEAD. We carry Arsenate of Lead both paste and dry. The trade seems to demand that in the dry state as it has so many advantages over the paste. The dry will keep forever, is less bulky, does not freeze and spoil, and the calcium arsenate which we handle will not burn no matter how strong the solution. Send for descriptive catalogue which gives valuable information for every tree grower. 1-lb. cans 60 cts., 5-lb. cans \$2.50, 10-lb. cans \$4.50.

ARSENATE OF LEAD. The best insecticide known for leaf-eating insects because it kills quickly. Trees or plants sprayed with arsenate of lead and water are quickly freed from their insect pests. It can not injure the most delicate foliage. Respraying after rains is the bane of the fruit-grower's life. Arsenate of lead dries on the leaves to a varnish-like film, which is not affected by dew or rain. One thorough spraying will protect the foliage for an entire season. 1-lb. glass jars, 40 cts., 5-lb. pails, \$1.50, 10-lb. pails, \$2.50, 50-lb. wooden pails, \$12.00, 100-lb. kegs at \$22.00.



BUG DEATH. We can say to our customers that we give Bug Death our full endorsement. While the first cost to kill the bugs on an acre of potatoes is rather more than that of arsenical insecticides, the results at harvesting time are entirely satisfactory, and where practical tests have been made, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. 1-lb. package 15 cts., 3-lb. package, 40 cts., 5-lb. package 60 cts., 12½-lb. package \$1.15, 100-lb. package \$8.50.

Pat. in Canada Nov. 2, 1897.
Pat. Mar. 16 & Nov. 9, 1906.

DRY BORDEAUX POWDER. For preventing blight on grapes, potatoes and other crops that are subject to rust, mildew and black rot; applied dry with bellows. Lb. 35 cts., 5 lbs. \$1.50.

DRY BORDEAUX MIXTURE AND PARIS GREEN. It kills potato-bugs and all plant-eating pests, prevents blight and rust, keeps potato and tomato vines and other foliage in a green and vigorous condition. In one box. Lb. 50 cts.

BORDEAUX MIXTURE (Liquid). This mixture is put up in one-gallon patent cans. One gallon will make 50 gallons by the addition of 49 gallons of water. Gallon cans \$2.00. Weight 9 lbs.

CARBOLINEUM. Of the numerous preservative compounds on the market Avenarius Carbolineum stands alone as time-tried and thoroughly tested. It is the only superficial preservative method that has been used the world over and demonstrated its value in the thirty years past. It is the only one that has received recognition and met with the approbation of engineers of Europe and America—the only preparation favorably reported along with the reliable but expensive and inconvenient Creosoting and Burnetizing process. Gallon can, \$1.50. Weight 11 lbs.

CARBONOL

CARBONOL. Used as a general disinfectant in the hen-house. Diluted 1 to 100 (about 2 tablespoons to a gallon of water), will keep it clean and healthful.

It is superior as a remedy for chicken cholera, gapes, roup, canker, etc. Will kill lice and destroy any disease germs before they have a chance to infect the flock.

The strong odor so often noticed in the stable can be prevented by spraying the floors and walls with a solution of **CARBONOL** (4 tablespoons to a pail of water.)

Galls, sores and wounds are quickly healed when washed frequently with a solution of **CARBONOL**.

4-oz. bottles 25 cts., 16-oz. bottles 50 cts., 1 gal. \$1.75. Weight 11 lbs. Sample will be mailed free on request.

CREOSOTE FOR GYPSY MOTHS. For the destruction of the eggs of gypsy moth. Qt. 25 cts., shipping weight 3 lbs.; gal. 50 cts., weight 9 lbs.; 5 gals. \$2.25.

CUTWORM FOOD. Rid your garden and farm of the Cutworm pest. There was a time when Cutworms were not considered very seriously by farmers and market-gardeners, but in late years it seems they have come to stay. Cutworm Food can not harm plants and is safe and easy for the operator. Put up in one-, five- and ten-pound packages. Directions for using on every package. 1-lb. 25 cts., 5-lb. \$1.00. Shipping weight 2 lbs. and 6 lbs.

GERM-A-THOL. Is the greatest disinfectant, deodorizer, detergent (cleaner), insecticide, bactericide and antiseptic, and is needed by house-keepers, cleaners, janitors, hotel proprietors, doctors, nurses, gardeners, laundrymen, poultrymen, horsemen, sheep-raisers, and by everyone seeking health, comfort and cleanliness. Price, 25 cts., 50 cts., and 75 cts.

HELLEBORE. Sure death to the currant worm. Lb. 50 cts., ½ lb. 30 cts., ¼ lb. 20 cts.

KEROSENE EMULSION. Not injurious to foliage and a sure remedy for lice, scale insects and most soft-bodied insects. Very valuable for washing domestic pets. Kills by contact. Qt. 40 cts., gal. \$1.00.

LEMON OIL. One of the cheapest, safest and most effectual insecticides. Dilute with 40 to 50 parts water. An excellent wash for dogs, curing mange, killing insects. ½ pt. 25 cts., pt. 40 cts., qt. 75 cts., ½ gal. \$1.25, gal. \$2.00.

SOLUBLE SULPHUR COMPOUND, IN POWDER FORM. Make your orchard pay you real profit money by spraying with sulphur compound, dry form. All the old disagreeable features of spraying with liquid lime sulphur is done away with by using the new sulphur compound. It is not caustic, does not freeze, is good till used and is fully 25 per cent cheaper to use than that in the liquid state. While the experiment stations do not favor using their testimonials over their signature, many of them endorse this dry soluble compound. Send for book of directions and testimonials from leading orchardists. Put up as follows: 1-lb. cans 40 cts., 5-lb. cans \$1.50, 10-lb. cans \$2.25

CONCENTRATED LIME SULPHUR. Kills San Jose Scale, Oyster Shell bark lice, etc., and gives the tree a thorough "house-cleaning." It should be applied any time after the leaves drop in Autumn and before the buds start in the spring. Needs only to be diluted with cold water and it is ready to apply. 1 gallon makes 10 gallons of spray. Guaranteed under the National Insecticide Act. 1 qt. 50 cts., weight 3 lbs.; 1 gal. \$1.00, weight 12 lbs.; 5 gals. \$3.00, 10 gals. \$4.50, 50 gals. \$11.00.

PARIS GREEN. A poisonous, insoluble powder for preventing the ravages of potato-bugs, codling moth, caterpillars, slugs and bugs. Mix one pound to 100 pounds of plaster, or 200 gallons of water. May be used clear with the Leggett Gun. Lb. 60 cts., 5 lbs. \$2.60.

BOWKERS

TRADE MARK PYROX SECURED KILLS AND CURES

Pyrox kills all leaf-eating insects and prevents disease.

It serves the purposes for which two mixtures were previously used. It is no experiment; it was introduced in 1898. It is a creamy paste that looks like paint, is easily mixed with cold water, and sticks like paint to the foliage. It won't wash off.

Bowker's Pyrox is a combination of arsenate of lead and Bordeaux. It is a mixture with reliability and brains behind it; a mixture with laboratory and field experience to support it; a mixture made by careful methods in a modern plant under expert supervision. Such a combination costs more to make and is worth more to buy because of the insurance the name affords against haphazard preparations.

It won't wash off. If it were not for the new growth coming along, as is usually the case with shade trees, fruit trees, shrubs, potato vines, etc., and which, of course, must be protected, one spraying would be enough for the season.

1 lb. (not mailable) 45 cts., 5 lbs. \$1.50, 10 lbs. \$2.75, 25 lbs. \$6.00, 50 lbs. \$10.75, 100 lbs. \$20.00, 300 lbs. or more \$57.00. Always select a clear day for spraying your fruit.

ROSE BUG DESTROYER. It is highly concentrated and is diluted with water according to the purpose. Full directions for use with each package. Small bottle 50 cts., large bottle \$2, case of six bottles \$10, keg, containing one gallon, \$4, keg containing five gallons \$17.50.

SCALECIDE. A petroleum oil that mixes at once with cold water in any proportion and stays mixed. It is not necessary to use an extra tank or barrel and no hot water should be used. Can be prepared in an instant, adding one gallon of Scalecide for every fifteen or twenty gallons of water. Qt can 50 cts., weight 3 lbs.; gal. can \$1.25, weight 9 lbs.; 5-gal. can \$5.30, half-bbl. (30-gal. tin) \$25.50, bbl. (50 gals.) \$39.50.

SLUG-SHOT. A fine powder used for potato bugs and other insects. Recommended for cabbage-worms. 5-lb. packages 50 cts.

SOAP, SULPHO-TOBACCO. 3-oz. pkg. 10 cts., mailed postpaid 13 cts. per doz. \$1, ½ lb. pkg. 20 cts., mailed postpaid 28 cts., per doz. \$2.00

WHALE OIL SOAP. For destroying insects on plants, etc., in small boxes. Lb. 25 cts., 5 lbs. \$1.00.



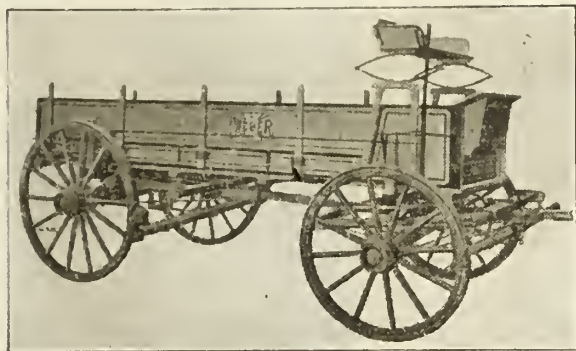


EVERYBODY KNOWS ROSS' SEED GROWS



WEBBER FARM WAGONS—One and Two Horse

WEBBER TWO HORSE WAGON.

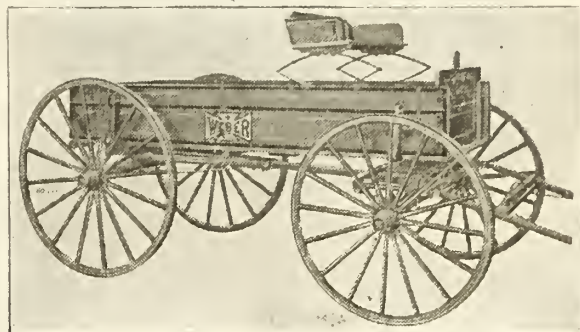


No. 316

This is the best farm wagon for the money on the market. The very best lumber is inspected at the mills before being used and all the lumber is thoroughly air dried in covered sheds and the wheels are made of white oak. In fact all the best goods are used exclusively on all Webber wagons, no poor or cheap grade stock is used. Wheels are the life of any wagon and unless the best wheels are used the wagon will soon go to pieces.

As the greater proportion of the load is over the bolster the box at this place at the bottom should be about 16 in. in the front and in the rear 12 in. long. This prevents the rear end from sagging and the rear wheels as well as the center sills extend beyond the box to stand the heavy pressure. Wheels 48 in. front, 48 in. rear and tire 3 x 3/4. These wagons are made with a wide track which is the standard width for New England roads. Price \$140.00.

WEBBER ONE HORSE WAGON.



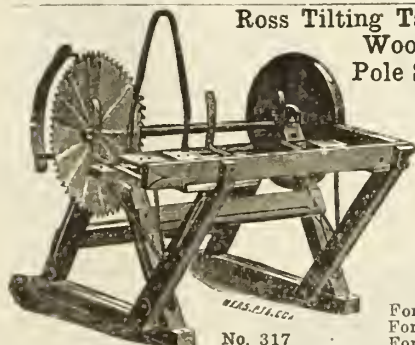
No. 319

These wagons are equal in quality to the two-horse Webber wagons and the same grade material is used in their construction. It is fitted with a high backed seat and the wheels have 2 3/4 in. tires and can stand any amount of use. The high spring seat makes it convenient for all kinds of work whether used as a farm wagon or for hauling to and from the village or city.

If you want a first-class, durable farm wagon that will stay with you for all time you make no mistake if you buy this one. Front wheels 40 in., rear wheels 48 in. Price \$95.00.

FARM TRUCK.

A handy farm truck with low steel wheels. Can be used for logging or any other farm work. This truck has extra long, well braced rear hounds and wood front hounds, fitted with a heavy cast reach plate. The axles and holsters are made of hardwood, either oak, hard



No. 317

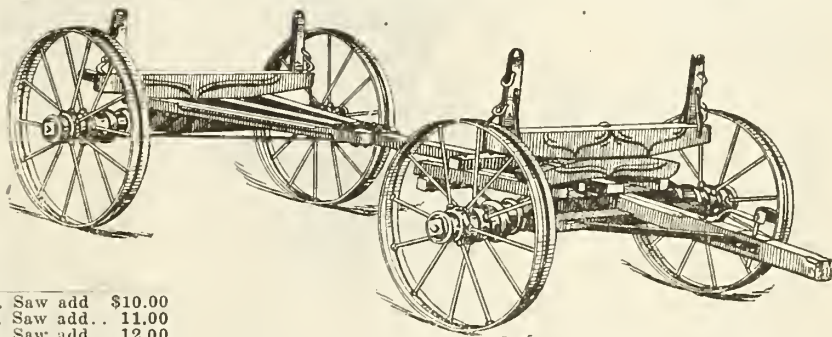
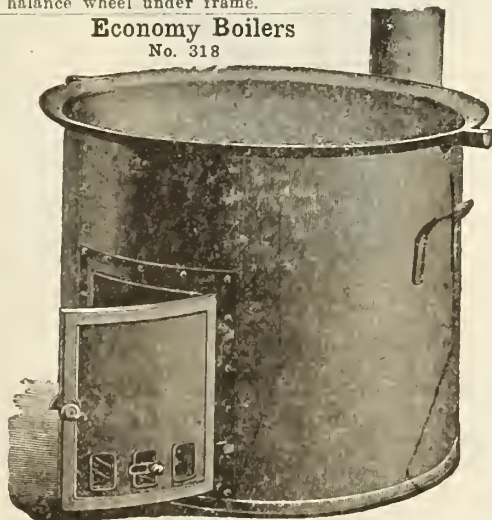
Tilting Table, Wood Saw Frame, only \$30.00
Tilting Table, Pole Saw Frame, only 36.00
Sliding Table, Wood Saw Frame, only 36.00
Pole saw has balance wheel under frame.

Economy Boilers

No. 318

No Farmer can afford to be without a farm boiler or large kettle of some kind. The Economy, shown in cut, is the cheapest of any on the market.

For out-door use only, as it has no grate. Prices, 33 gal., net cash price, \$16.50; 48 gal., net cash price, \$18.00; 65 gal., net cash price, \$24.00. Other sizes furnished if desired.



No. 320

maple, or rock elm. The holster stakes are mortised into the holster, are ringed for tying or binding, and all are well ironed. The wheels are of the best French and Hecht with grooved tires, 9-16 in spokes. The wood work is painted red with black striping and green wheels. Price, \$66.

This wagon is made with wide track which is the standard width for New England.

Barstow Caldron Stoves.

Farmers, Butchers and Bakers use this stove to advantage. Can be fitted for burning either coal or wood, and is made of the best quality of iron and carefully constructed.

Prices complete with Kettle:

	For Coal	For Wood	Kettles Only	Diam. of Kettle	Height of Stove
16 gal.	\$23.00	\$19.00	\$ 6.50	21 1/4 in.	31 1/2 in.
21 gal.	26.00	21.50	8.00	22 1/4 in.	35 1/4 in.
30 gal.	34.50	30.50	10.50	25 3/4 in.	33 1/2 in.
45 gal.	39.50	35.50	15.00	31 1/2 in.	37 in.



No. 321



ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



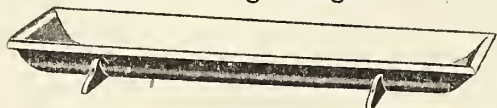
"Goshen" Round End Stock Watering and Storage Tanks No. 322



List No.	Width Feet	Height Feet	Length Feet	Cap. Gals.	Weight Pounds	List Price
101	2	2	4	91	74	\$10.80
102	2	2	5	117	88	12.80
103	2	2	6	144	102	13.80
104	2	2	7	170	121	15.60
105	2	2	8	197	135	16.40
106	2	2	10	250	166	22.20
107	2	2 1/2	8	246	151	18.10
L	2 1/2	2	5	145	93	14.70
M	2 1/2	2	6	178	110	16.00

We can furnish any size. 5 per cent discount for cash.

Cast Iron Hog Trough



No. 323

Cast iron hog troughs. Nearly the price of wood troughs and will never wear out. 4 ft. \$5.75 each, 5 ft. \$7.00 each.

The Improved Kelly-Duplex Grinding Mills

The Product of a Quarter of a Century's Experience in manufacturing Grinding Mills.

A Continuous Record of Superiority.

The Kelly-Duplex is the Best Mill in the World.

BECAUSE it is provided with a double set of grinders or burrs, for which reason it is called the Duplex.

BECAUSE it is the only mill manufactured which has double or duplex grinders.

BECAUSE it has a grinding surface of just double that of any other mill of equal size, and can therefore, do twice as much work.

BECAUSE it can do as much work as any other mill of double its size.

BECAUSE it is very economical in the use of power, running much easier than any other mill.

BECAUSE it will grind any kind of grain, cotton seed, ear corn and cob, with or without shucks, velvet beans, pea vine hay, Kafir corn and heads, alfalfa, clover hay, etc., equally well, and produce a grit of any desired quality, coarse, medium or fine.

No.	Bu. per Hour	Horse Power	Price
No. 50 with pulley	1 1/2	1 to 3	\$25.00
1	10 to 20	3 to 6	60.00
2	20 to 30	7 to 10	80.00
3	30 to 40	10 to 15	100.00
4	50 to 75	15 to 20	135.00

Our Special Outdoor Dryer

Made of best stock; cotton line. 110-ft. line, \$5.25, 150-ft. line, \$5.50. Above includes box to go into the ground.

No. 325



No. 332

Eureka Stump Puller and Rock Lifter

No. 326

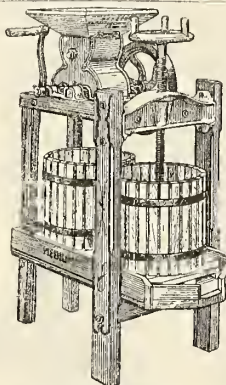
This is by far the simplest and most efficient device on market for pulling stumps, lifting stones and handling heavy bodies, and will be found very useful. Price, No. 1, weight, 22 lbs., capacity, 4 tons, \$17.00. No. 2, weight, 26 lbs., capacity, 6 tons, \$18.00. No. 3, weight, 32 lbs., capacity, 8 tons, \$20.00. Giant Lifter, capacity, 20 tons, \$30.00. Net cash price.



Medium Farm Mill

This is a good-sized mill for farmers use. It is built with iron beam and heavy gearing and is perfectly adjustable for all kinds of fruit. Price, \$29.

No. 327

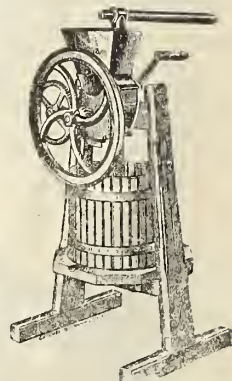


The Iamit Cider Mill

No. 328

The Iamit is a mill and press combined. It will grind apples, and you don't have to poke them into the

discs. It cuts and scrapes the apples, thereby breaking all the cells. It will grind at the rate of one-half bushel per minute. Net cash price, \$18.50.



Peach Baskets

No. 329

Each stave on the basket is secured to the hoops by 6 double pointed staples which makes the basket much more rigid. Price on application.



No. 330

Oxford Picking Basket

Oxford picking baskets are made strong and serviceable and are smooth on the inside to protect the fruit from bruising. Price, peck, per doz. \$4.50, each 50 cts. Price, 1/2 bush. per doz. \$6.00, each, 65 cts.

Berry Baskets No. 331

All white, \$8.25 per 1,000; 10,000 lots, 25 cts. less per 1,000. Close corner (for blueberries) \$9.00 per 1,000 oval pints, \$8.25 per 1,000; pansy baskets, wire handles, \$19.00 per 1,000.

Window Boxes

What adorns a window better than a well kept window box of some description? Can be filled with trailing flowers or even small vegetables, such as radish, lettuce, etc., can be grown very successfully.

Our wood window boxes are made of Cypress, painted green, and so constructed that they can be easily taken apart, cleaned and packed away till wanted. 3 ft. long (Cypress). Price, \$1.75. We also carry them made in galvanized steel, painted green.

Length	Width	Depth	Price
24 in.	8 1/2	6 1/4	\$1.00
30 in.	8 1/2	6 1/4	1.35
36 in.	8 1/2	6 1/4	1.75



EVERYBODY KNOWS ROSS' SEED GROWS



WEIGHTS OF GRASS AND FIELD SEEDS AND QUANTITIES SOWN PER ACRE

	Weights.		Quantity Sown			Weights.		Quantity Sown	
	Per bush.	45 lbs.	Per bush.	45 lbs.		Per bush.	12 lbs.	Per bush.	45 lbs.
Timothy			15	20 lbs.	Tall Oat Grass			14	45 lbs.
Clover, Red		60	15	20 lbs.	Wood Meadow		14		30 lbs.
Clover, White		60	10	15 lbs.	Yellow Oat Grass		8		45 lbs.
Clover, Alsike		60	8	10 lbs.	Buckwheat		48		24 lbs.
Clover, Alfalfa		60	15	20 lbs.	Barley		48		2 to 3 bush.
Red Top Fancy			10	15 lbs.	Oats		32		2 to 3 bush.
Bent, Fancy, R. I.			10	15 lbs.	Rye		56		1 1/2 bush.
Sine Grass			30	40 lbs.	Wheat		60		1 1/2 bush.
Hungarian			60	lbs.	Flax		56		1 to 2 bush.
Lawn Seed			80	to 100 lbs.	Canary		60		
Millet, American	Per bush.,	50 lbs.	25	lbs.	Hemp		40		
Millet, Golden or German		50	25	lbs.	Rape		50		
Orchard Grass		14	30	to 40 lbs.	Beans, White		60		1 to 1 1/2 bush.
Crested Dog's Tail		28	28	to 30 lbs.	Beans, Seed Wax		60		1 to 1 1/2 bush.
Hard Fescue		14	14	to 18 lbs.	Beans, Soy		58		
Italian Rye Grass		18	15	to 18 lbs.	Beans, Lima		56		
Meadow Fescue		15	18	to 20 lbs.	Beans, Scarlet Runner		50		
Meadow Foxtail		8	24	lbs.	Corn, Sweet		56		8 to 10 quarts
Perennial Rye Grass		24	30	lbs.	Corn, Ensilage		56		12 to 14 quarts
Rough Stalked Meadow		11	28	to 30 lbs.	Corn, Field		56		8 to 12 quarts
Sweet Vernal		12	30	to 35 lbs.	Peas, Smooth		60		1 1/2 to 3 bush.
Sheep Fescue		12	20	to 24 lbs.	Peas, Seed, Wrinkled		56		1 1/2 to 3 bush.
Tall Fescue		15	40	to 50 lbs.					

QUANTITY OF SEED REQUIRED TO SOW AN ACRE OF GROUND

	Quantity per Acre		Quantity per Acre
Artichoke, 1 oz. to 500 plants	1/2 lb.	Martynia, 1 oz. to 50 feet of drill	10 lbs.
Asparagus, 1 oz. to 200 plants	5 lbs.	Melon, Musk, 1 oz. to 100 hills	1 1/2 lbs.
Beans, Dwarf, 1 oz. to 150 feet of drill	1 1/4 bush.	Melon, Water, 1 oz. to 25 hills	1 1/2 lbs.
Beans, Pole, 2 quarts to 200 hills	1/2 bush.	Nasturtium, 1 oz. to 50 feet of drill	10 lbs.
Beet, Garden, 1 oz. to 100 feet of drill	10 lbs.	Okra, 1 oz. to 50 feet of drill	10 lbs.
Beet, Mangel, 1 oz. to 150 feet of drill	6 lbs.	Onion Seed, 1 oz. to 200 feet of drill	4 to 5 lbs.
Broccoli, 1 oz. to 3,000 plants	5 oz.	Onion Seed for Sets	30 to 50 lbs.
Broom, Corn	10 lbs.	Onion Sets, 1 qt. to 20 feet of drill	8 bush.
Brussels Sprouts, 1 oz. to 3,000 plants	5 oz.	Parsnip, 1 oz. to 250 feet of drill	5 lbs.
Cabbage, 1 oz. to 3,000 plants	5 oz.	Parsley, 1 oz. to 250 feet of drill	8 lbs.
Carrot, 1 oz. to 150 feet of drill	2 1/2 lbs.	Peas, Garden, 1 qt. to 150 feet of drill	1 1/2 bush.
Caniflower, 1 oz. to 3,000 plants	5 oz.	Pepper, 1 oz. to 1,500 plants	4 oz.
Celery, 1 oz. to 10,000 plants	4 oz.	Potatoes	8 to 12 bush.
Collards, 1 oz. to 2,500 plants	6 oz.	Pumpkins, 1 quart to 300 hills	4 qts.
Corn, sweet, 1 quart to 500 hills	8 qts.	Radish, 1 oz. to 150 feet of drill	8 lbs.
Cress, 1 oz. to 150 feet of drill	8 lbs.	Rye	1 1/2 bush.
Cucumber, 1 oz. to 80 hills	1 1/4 lbs.	Salsify, 1 oz. to 60 feet of drill	8 lbs.
Egg Plant, 1 oz. to 2,000 plants	8 oz.	Spinach, 1 oz. to 150 feet of drill	10 lbs.
Endive, 1 oz. to 300 feet of drill	3 lbs.	Summer Savory, 1 oz. to 500 feet of drill	2 lbs.
Flax, broadcast	1/2 bush.	Squash, Summer, 1 oz. to 40 hills	2 lbs.
Kale, 1 oz. to 3,000 plants	4 oz.	Squash, Winter, 1 oz. to 10 hills	2 oz.
Kohl-Rabi, 1 oz. to 200 feet of drill	1 1/2 lbs.	Tomato, 1 oz. to 3,000 plants	3 oz.
Leek, 1 oz. to 250 feet of drill	4 lbs.	Tobacco, 1 oz. to 5,000 plants	2 lbs.
Lettuce, 1 oz. to 250 feet of drill	3 lbs.	Turnip, 1 oz. to 250 feet of drill	1 1/2 lbs.

NUMBER OF PLANTS, TREES, ETC., REQUIRED TO SET AN ACRE

Distance.	Number.	Distance.	Number.
1 foot by 1 foot	43,560	6 feet by 6 feet	1,210
1 1/2 " " 1 1/2 "	19,360	8 " " 8 "	680
2 " " 2 "	21,780	10 " " 10 "	434
2 1/2 " " 2 1/2 "	10,890	12 " " 12 "	302
3 " " 3 "	6,970	15 " " 15 "	194
3 1/2 " " 3 1/2 "	14,520	18 " " 18 "	134
4 " " 4 "	7,260	20 " " 20 "	103
4 1/2 " " 4 1/2 "	4,840	25 " " 25 "	70
5 " " 5 "	2,722	30 " " 30 "	40
	1,742	40 " " 40 "	27

WEIGHT OF VARIOUS ARTICLES

	Per bush.,	48 lbs.		Per bush.,	56 lbs.
Apples		22	Sweet Potatoes		58
Apples, dried		48	Turnips		200
Barley		46	Beef and Pork, per bbl., net		196
Broom Corn		20	Flour, per bbl., net		200
Bran		70	White Fish and Trout, per bbl., net		280
Corn on Ear		50	Salt, per bbl.		220
Corn Meal		22	Lime, per bbl.		4 1/2
Charcoal		80	Hay, well settled, per cubic foot		22
Coal, Mineral		40	Corn, on cob, in bin per cubic foot		45
Cranberries		28	Corn, shelled, in bin, per cubic foot		48
Dried Peaches		60	Wheat, in bin, per cubic foot		25 1/2
Irish Potatoes, heaping measure		39	Oats, in bin, per cubic foot		38 1/2
Malt		33	Potatoes, in bin, per cubic foot		95
Osage Orange		54	Sand, Dry, in bin, per cubic foot		135
Onions		8	Clay, Compact, per cubic foot		169
Plastering Hair		50	Marble, per cubic foot		5,616
Salt, Coarse		56	Seasoned Beech Wood, per cord		6,960
Salt, Michigan			Seasoned Hickory, per cord		

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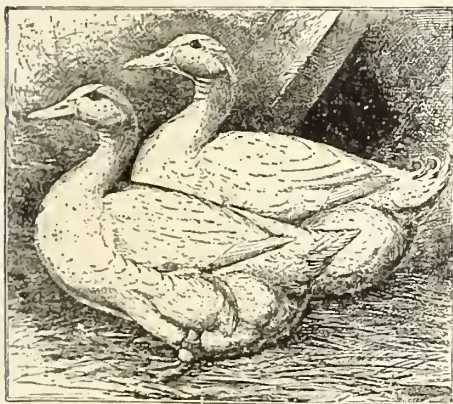
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White Wyandotte

male birds are mahogany red, similar in shape to the Leghorns, while the females are a light yellow with black spots on the end of each feather, making a very showy and attractive bird, but unlike the Leghorns they are very docile and like company. This breed was introduced into the United States a number of years ago by a sea captain, who procured them in Sicily to furnish meat on his return voyage, but as they persisted in laying in confinement he brought them to this country where they soon became very popular. They are non-setters and the pullets commence laying when about four months old. We can supply only a limited number of settings.

If you want meat for the table, you can no doubt have Roast Duck in the shortest time and at the least expense. White Pecan Ducklings usually weigh from four to five pounds when ten weeks old. They grow like weeds, do not scratch and can be raised in confinement.



White Pecan Ducklings

EGGS FOR HATCHING AND BABY CHICKS

In addition to our large line of Poultry Supplies, we sell Eggs for Hatching and Baby Chicks. We can start you in the poultry business and we can keep you going. There isn't a thing in that line we cannot supply.

On account of the high price of eggs, Baby Chicks will be somewhat higher than they were last year but when you stop to consider the number of hens in the country to-day as compared with three years ago, it should convince anyone that now is the time to stock up.

There will be a large sale for early-hatched pullets this fall at a good profit. Eggs and poultry are both high while feeds are no higher and by another harvest time grain should be very much lower. The person who has a good flock of fowls for next fall will reap the benefit.

We can furnish you eggs for setting of White Wyandottes, Rhode Island Reds, Sicilian Buttercups and White Pecan Ducks.

The White Wyandotte is the standard utility fowl for all purposes. They are good layers, make the very best of poultry for the table, always dressing plump whether old or young.

Next to this breed comes the Rhode Island Red, which is also good for both poultry and eggs.

One of the latest breeds to come into the market is the Sicilian Buttercup. They are called the 300-egg bird. The name Buttercup was given them because of the peculiar shape of the comb. The



A Pair of Buttercup Fowls

PRICE LIST

	Per Setting \$3.00	Two Settings \$
White Wyandotte Eggs from Best Pen	2.50	
White Wyandotte Eggs from Utility Pen	3.00	
Rhode Island Red Eggs	5.00	9.00
Buttercup Eggs	3.00	5.00
White Pecan Duck Eggs		

Each setting consists of 15 eggs.

Ask for price on Baby Chicks.

Do not overlook our complete line of poultry supplies on pages 91 to 98.

List of Pans, Standard Flower Pots, and Saucers with Rims

Inside measurement, width and depth
equal.

Size	Per 1000
1 1/4 in.	\$10.50
2 in.	10.50
2 1/4 in.	11.90
2 1/2 in.	14.03



No. 333

Flower Pots				Saucers		
	Each	Doz.	1000	Each	Doz.	1000
3 in.	\$.05	\$.30	\$ 1.85	\$.03	\$.25	\$ 1.75
3 1/2 in. ....	.05	.35	2.25			
4 in. ....	.05	.40	2.75	.04	.30	2.10
5 in. ....	.07	.70	5.00	.05	.40	2.75
6 in. ....	.10	1.00	7.50	.06	.55	4.25
7 in. ....	.17	1.65	12.50	.08	.75	5.50
8 in. ....	.25	2.50	18.00	.10	1.00	7.50
9 in. ....	.36	3.60	27.50	.13	1.35	10.50
10 in. ....	.50	5.00	37.50	.17	1.65	12.50
11 in. ....	.65	6.50	55.00	.20	2.00	15.00
12 in. ....	.90	10.00	75.00	.25	2.50	18.75
13 in.	1.00			.28	2.75	
14 in.	1.25			.33	3.25	
15 in.	2.00			.45	4.50	
16 in.	2.75			.65	6.25	

Neponset Flower Pots

No. 334

No. in. Crate	Size	Packed for Shipment	Per 100	1000
1,000	2 1/4 in. pots	20 lbs.	\$.35	\$ 3.00
1,000	2 1/2 in. pots	23 lbs.	.40	3.50
1,000	3 in. pots	33 lbs.	.50	4.50
1,000	3 1/2 in. pots	44 lbs.	.70	6.50
500	4 in. pots	38 lbs.	.80	7.50
500	5 in. pots	56 lbs.	1.25	12.00
500	6 in. pots	74 lbs.	1.75	16.00

Not less than original crates at 1,000 rate. Samples by mail.

Bulb Pans

No. 335

	Each	Doz.	100
6 in.	\$.19	\$ 1.00	\$ 7.50
8 in. ....	.25	2.50	18.00
10 in. ....	.35	5.00	37.50
12 in.	1.00	10.00	75.00
14 in.	1.50	16.00	125.00

All prices in this catalogue are based on the lowest market price at time catalogue goes to the press but they are subject to market changes. This applies to both advance and decline.

ROSS' EUREKA ENSILAGE CORN



SHEFFIELD WORLD'S PRIZE
FLINT CORN

WHITE TARTAR OATS



MARQUIS SPRING WHEAT